User Guide

For the New DAM Trading System (SAPRI Platform)

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- Daily programme
- Connecting of participant
- Bids: submit, change, view
  - Hourly bids
  - Block bids
  - Flexible Bids
- DAM Trading Results
  - Public results
  - Company results
- Log and Messages

The participant can connect itself to the new trading system only if the Market Operator has established an account for him and based on a username and a password received by the participant.

Different windows are available according to the role allocated to the user.

Daily programme

Daily Programme

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Daily programme (Romanian time zone - EET)

09:00
- Trading day opens
- Market parameters dissemination

12:00
- Gate for submitting bids closes
- Calculation the Market Clearing price starts

13:30
- Market Results are disseminated (prices and traded volumes)
- Gate for objections opens (by phone, e-mail)

14:00
- Gate for objections closes
- Balance Responsible reports become firm

16:30
- Public results are published on OPCOM website
- Trading day closes

opcom

Bidding in CET (i.e. EET-1h)

Trading interval	Hourly Interval	
	CET	Romanian Time Zone (EET)
1	00:00-01:00	01:00-02:00
2	01:00-02:00	02:00-03:00
3	02:00-03:00	03:00-04:00
4	03:00-04:00	04:00-05:00
5	04:00-05:00	05:00-06:00
6	05:00-06:00	06:00-07:00
7	06:00-07:00	07:00-08:00
8	07:00-08:00	08:00-09:00
9	08:00-09:00	09:00-10:00
10	09:00-10:00	10:00-11:00
11	10:00-11:00	11:00-12:00
12	11:00-12:00	12:00-13:00
13	12:00-13:00	13:00-14:00
14	13:00-14:00	14:00-15:00
15	14:00-15:00	15:00-16:00
16	15:00-16:00	16:00-17:00
17	16:00-17:00	17:00-18:00
18	17:00-18:00	18:00-19:00
19	18:00-19:00	19:00-20:00
20	19:00-20:00	20:00-21:00
21	20:00-21:00	21:00-22:00
22	21:00-22:00	22:00-23:00
23	22:00-23:00	23:00-00:00
24	23:00-00:00	00:00-01:00 (D+1)

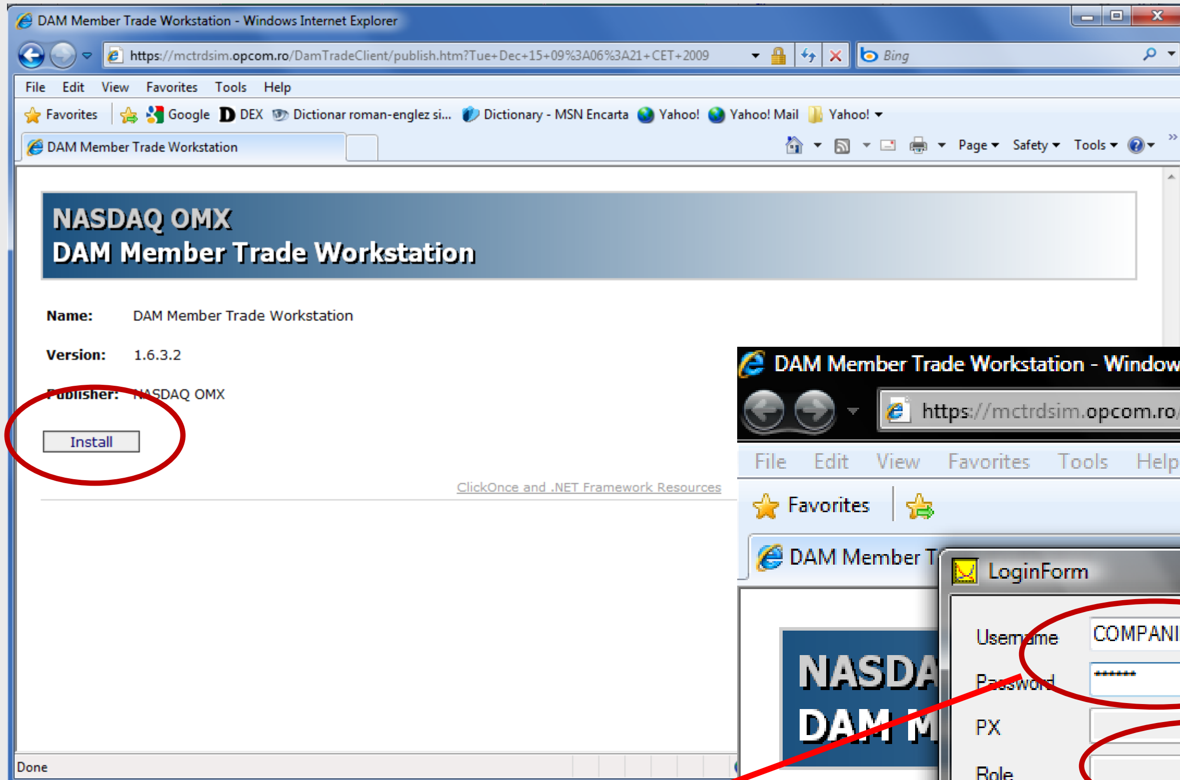
Note:
The hourly interval no.24 represents the first hour the day after delivery day (D+1)

D – Delivery day

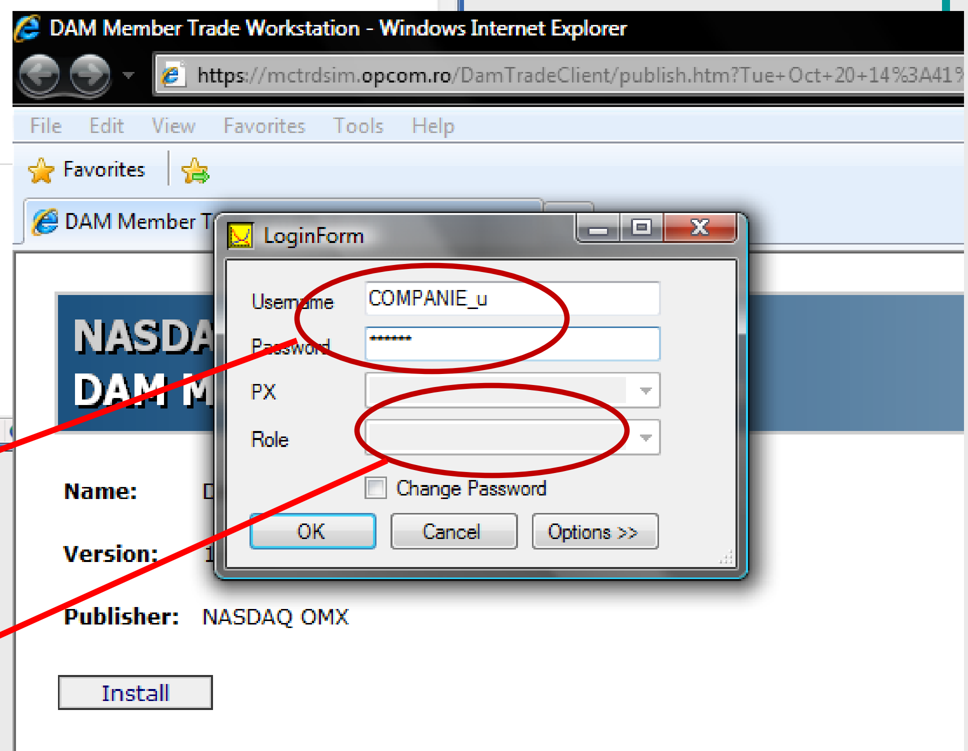
Connecting the Participant

Connecting to the System

Application launch: **https://mctrdsim.opcom.ro/**



Connecting the participant

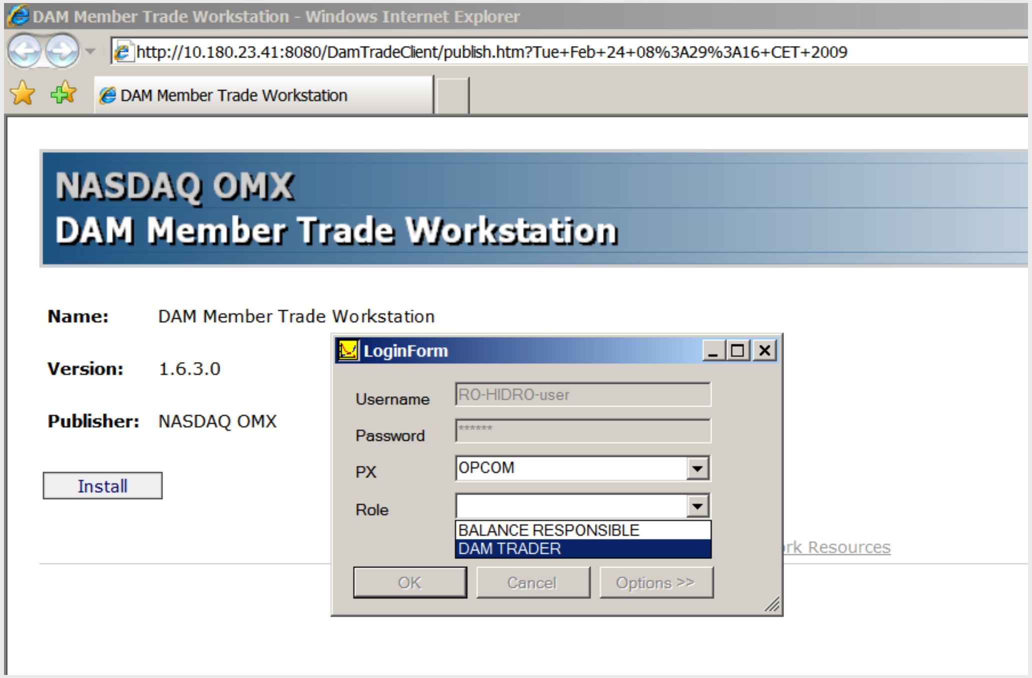


Step 1: Username: XXXXX_u
Password: opcom1

Step 2: Select role:

- DAM Trader or
- Balance Responsible

Connecting to the system



Connecting the participant
Role selection

Username and password are introduced. The OK tab is pressed.

If both username and password are correctly typed, the next step is available: role selection.

Roles in SAPRI system:

- DAM Trader
- Balance Responsible

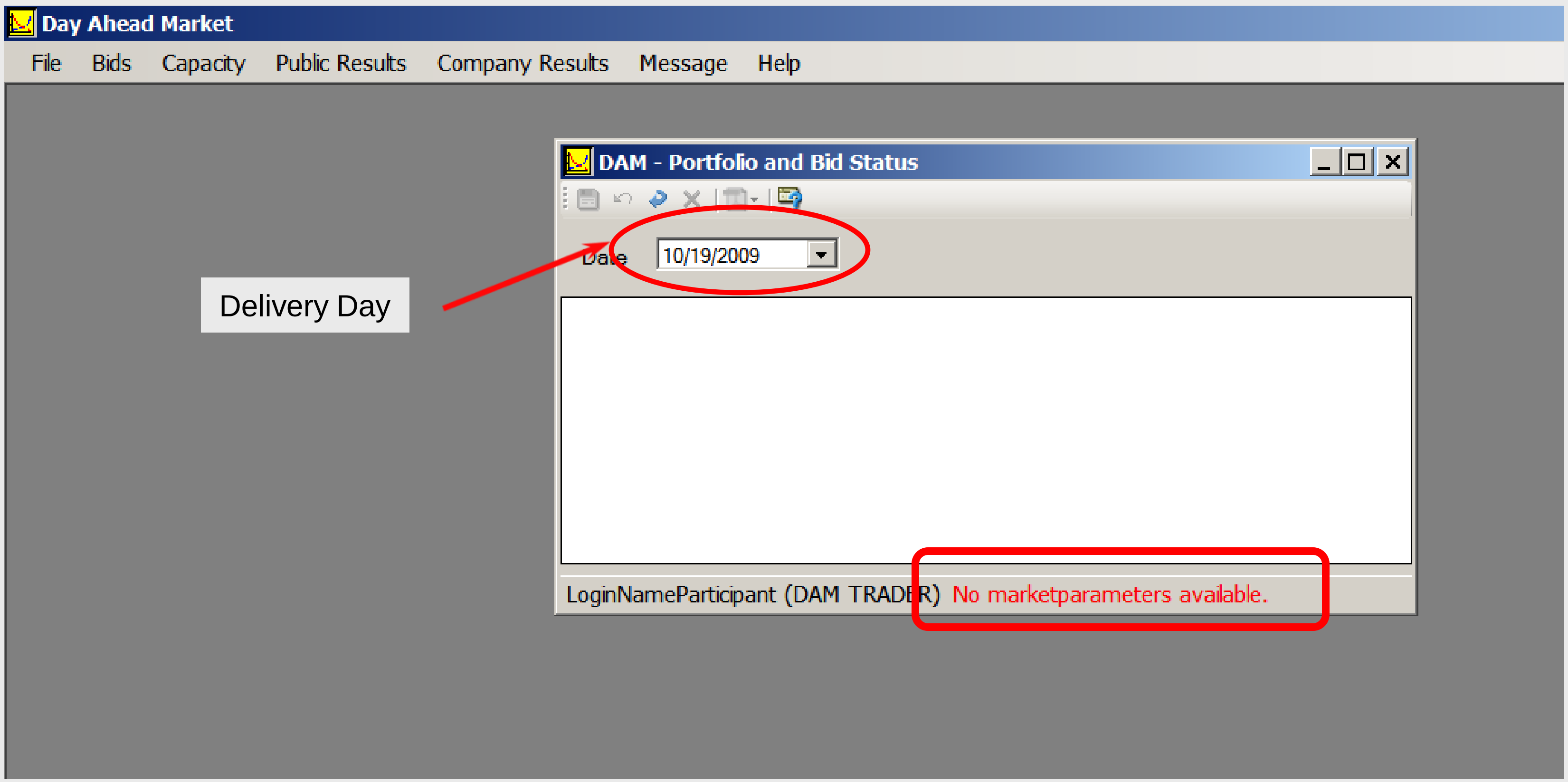
Note: In case the participant is registered as DAM Trader only (he isn't his own Balance Responsible) the step for role selection is skipped and the next window is directly available.

Market parameters publication

First window displayed after connecting the participant – Portfolio and Bid Status

If the market parameters have not been published no bid can be submitted.

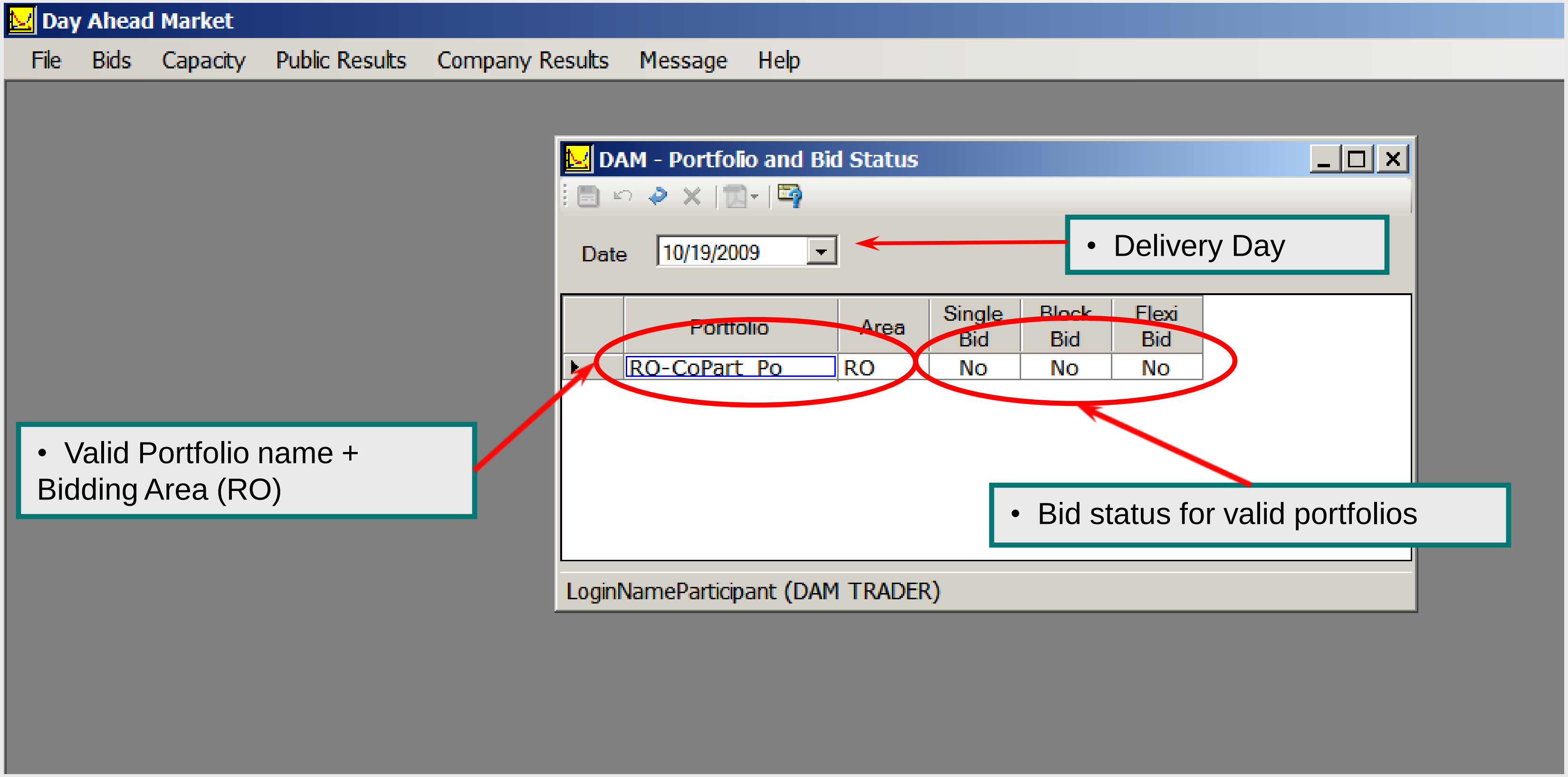
No valid portfolio is displayed for the participant.



Market parameters publication

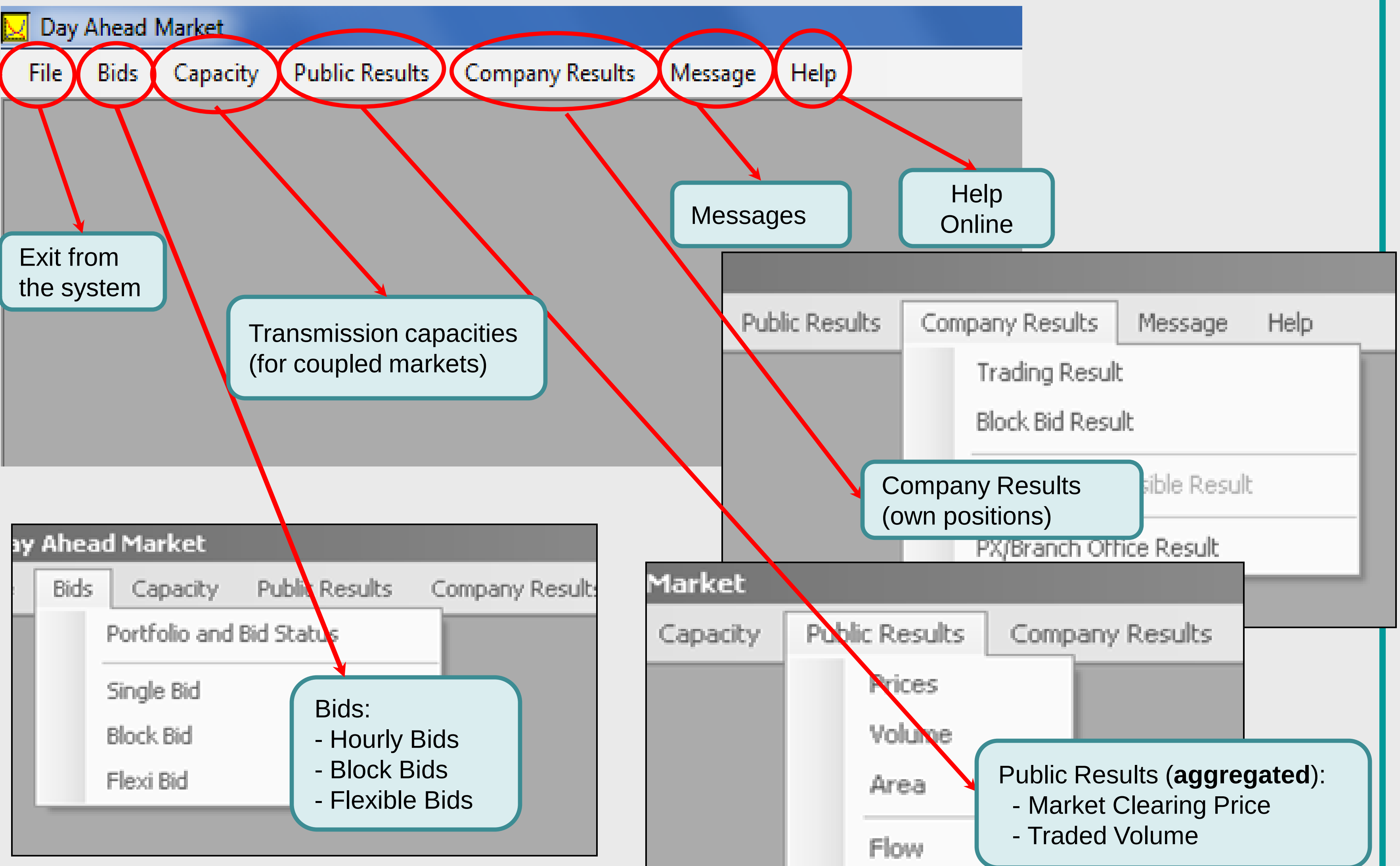
Market parameters are published

Participant's valid portfolio and bid status is displayed.



The participant can have more than one registered portfolios

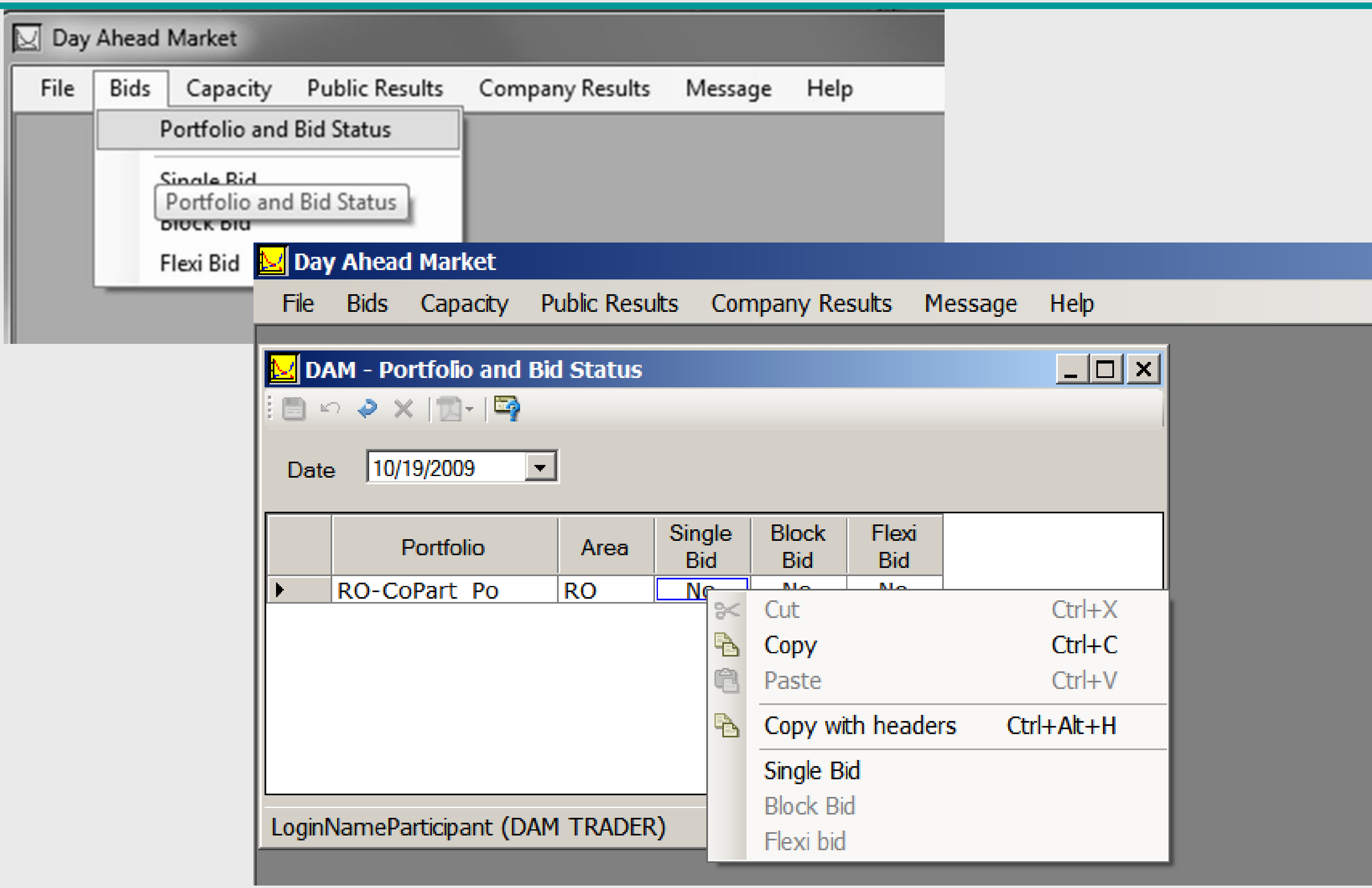
Menu



Day Ahead Market
File
Bids
Capacity
Public Results
Company Results
Message
Help
Exit from the system
Transmission capacities (for coupled markets)
Messages
Help Online
Trading Result
Block Bid Result
PX/Branch Office Result
Company Results (own positions)
Portfolio and Bid Status
Single Bid
Block Bid
Flexi Bid
Bids:
- Hourly Bids
- Block Bids
- Flexible Bids
Market
Prices
Volume
Area
Flow
Public Results (**aggregated**):
- Market Clearing Price
- Traded Volume

Bids:
Submit, Change, View

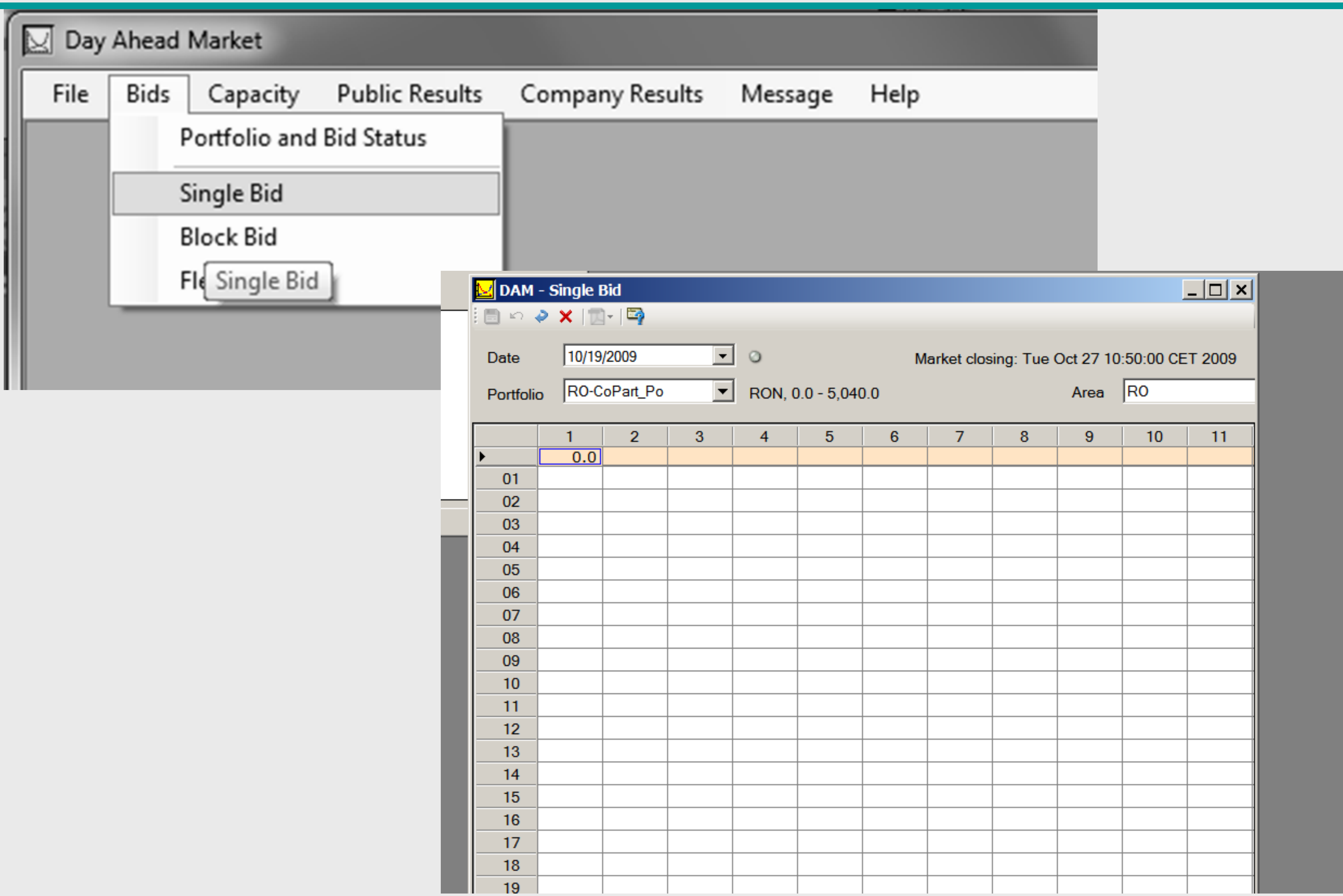
Hourly Bids



Window for hourly bids (1):

- Select Bids / Portfolio and Bid Status option
- Left mouse click on cell for portfolio line and hourly bid type column for selecting the cell
- Right mouse click on selected cell
- Select Single Bid option

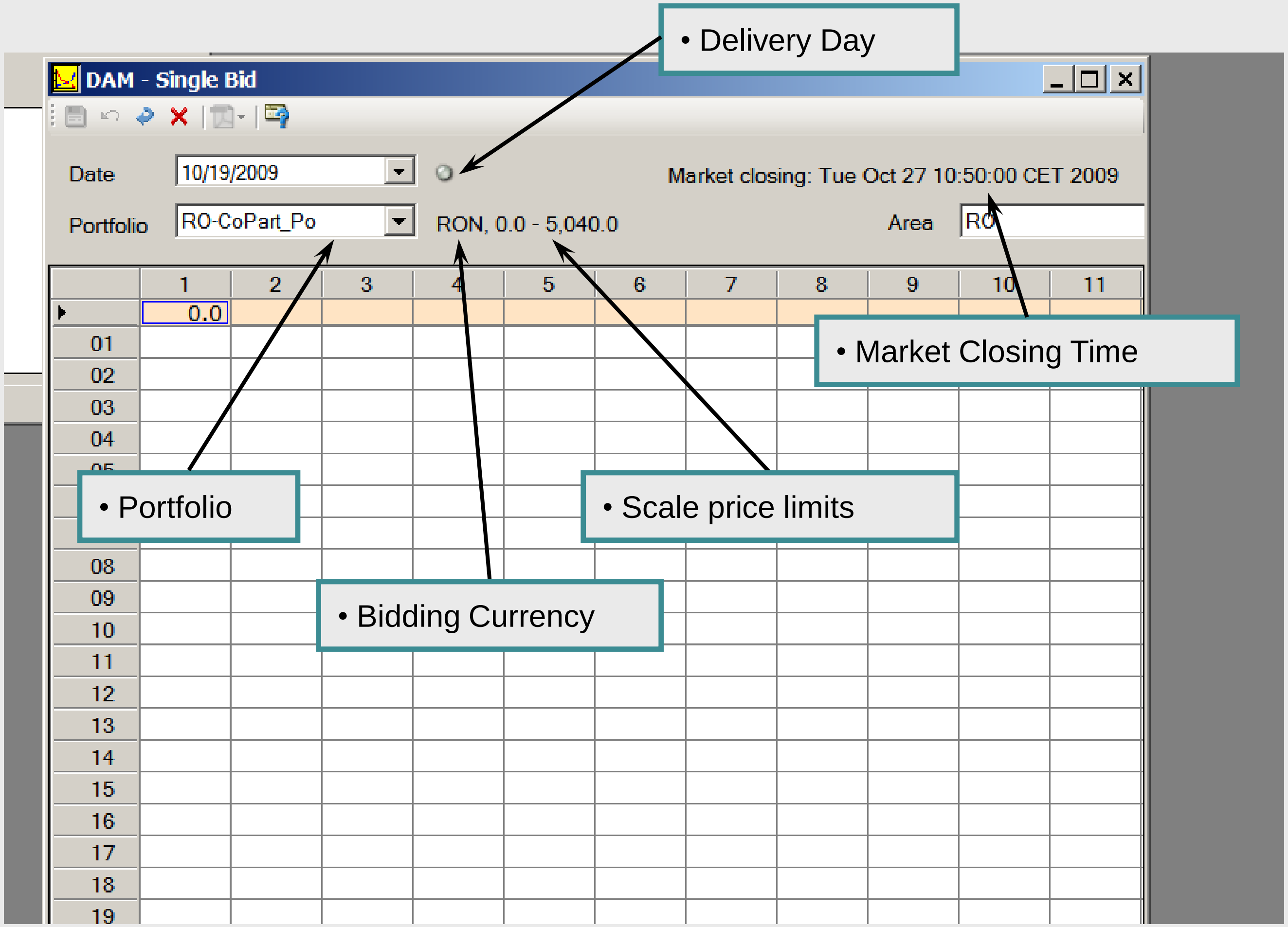
Hourly Bids



Window for hourly bids (2):

• Select Bids / Single Bid option

New window for hourly bid introduction



Hourly Bids

DAM - Single Bid

Date: 10/19/2009 Market closing: Tue Oct 27 10:50:00 CET 2009

Portfolio: RO-CoPart_Po RON, 0.0 - 5,040.0 Area: RO

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	0.0	50.0	70.0	90.0	150.0	200.0	220.0	5,04...						
01	70.0	70.0	0.0	0.0	-100.0	-200.0	-400.0	-400.0						
02	80.0	80.0	0.0	0.0	-50.0	-100.0	-200.0	-200.0						
03	80.0	80.0	0.0	0.0	-50.0	-100.0	-200.0	-200.0						
04	80.0	80.0	0.0	0.0	-50.0	-100.0	-200.0	-200.0						
05	80.0	80.0	0.0	0.0	-50.0									
06	80.0	80.0	0.0	0.0	-50.0									
07	150.0	150.0	0.0	0.0	-150.0									
08	150.0	150.0	0.0	0.0	-150.0									
09	150.0	150.0	0.0	0.0	-150.0									
10	150.0	150.0	0.0	0.0	-150.0									
11	150.0	150.0	0.0	0.0	-100.0									
12	80.0	80.0	0.0	0.0	-100.0	-200.0	-400.0	-400.0						
13	80.0	80.0	0.0	0.0	-100.0	-200.0	-400.0	-400.0						
14	80.0	80.0	0.0	0.0	-100.0	-200.0	-400.0	-400.0						
15	80.0	80.0	0.0	0.0	-100.0	-200.0	-400.0	-400.0						
16	80.0	80.0	0.0	0.0	-150.0	-300.0	-500.0	-500.0						
17	120.0	120.0	0.0	0.0	-150.0	-300.0	-500.0	-500.0						
18	120.0	120.0	0.0	0.0	-150.0	-300.0	-500.0	-500.0						
			0.0	0.0	-150.0	-300.0	-500.0	-500.0						
			0.0	0.0	-100.0	-200.0	-400.0	-400.0						
			0.0	0.0	-100.0	-200.0	-400.0	-400.0						
			0.0	0.0	-100.0	-200.0	-400.0	-400.0						
			0.0	0.0	-100.0	-200.0	-400.0	-400.0						
24	60.0	60.0	0.0	0.0	-100.0	-200.0	-400.0	-400.0						
Sum	2,34...	2,34...	0.0	0.0	-2,5...	-5,1...	-9,4...	-9,4...						

LoginNameParticipant (DAM TRADER) Single bid saved.

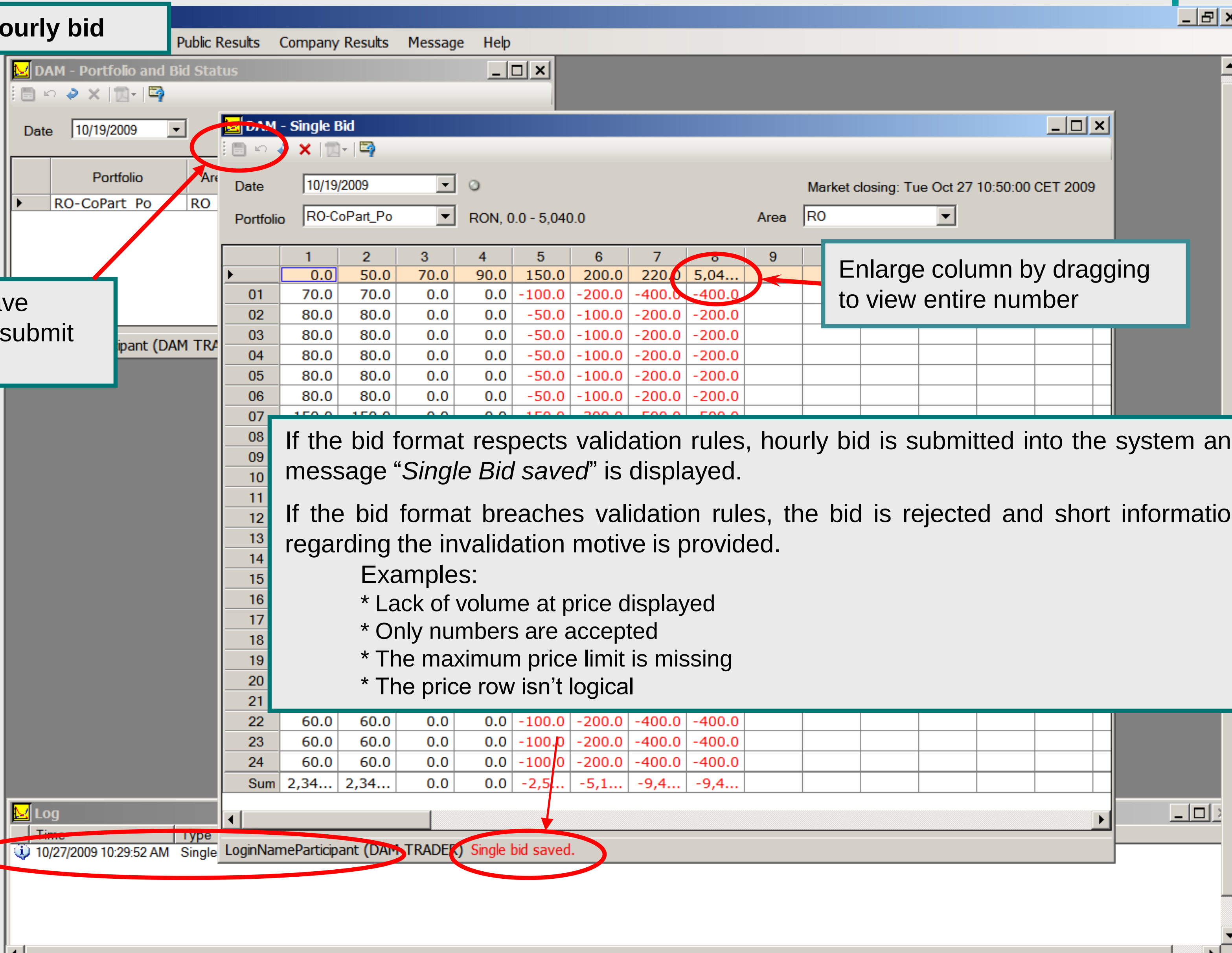
Line for prices:

- Prices are increasingly ordered between scale price limits
- **Mandatory** price scale limits

Price – volume pairs in hourly bids (maximum 64 pairs)

- **Bid for sale**
  - negative volumes, red font colour
- **Bid for buy**
  - positive volumes, black font colour

Submitting hourly bid



Select Save button to submit bid

Enlarge column by dragging to view entire number

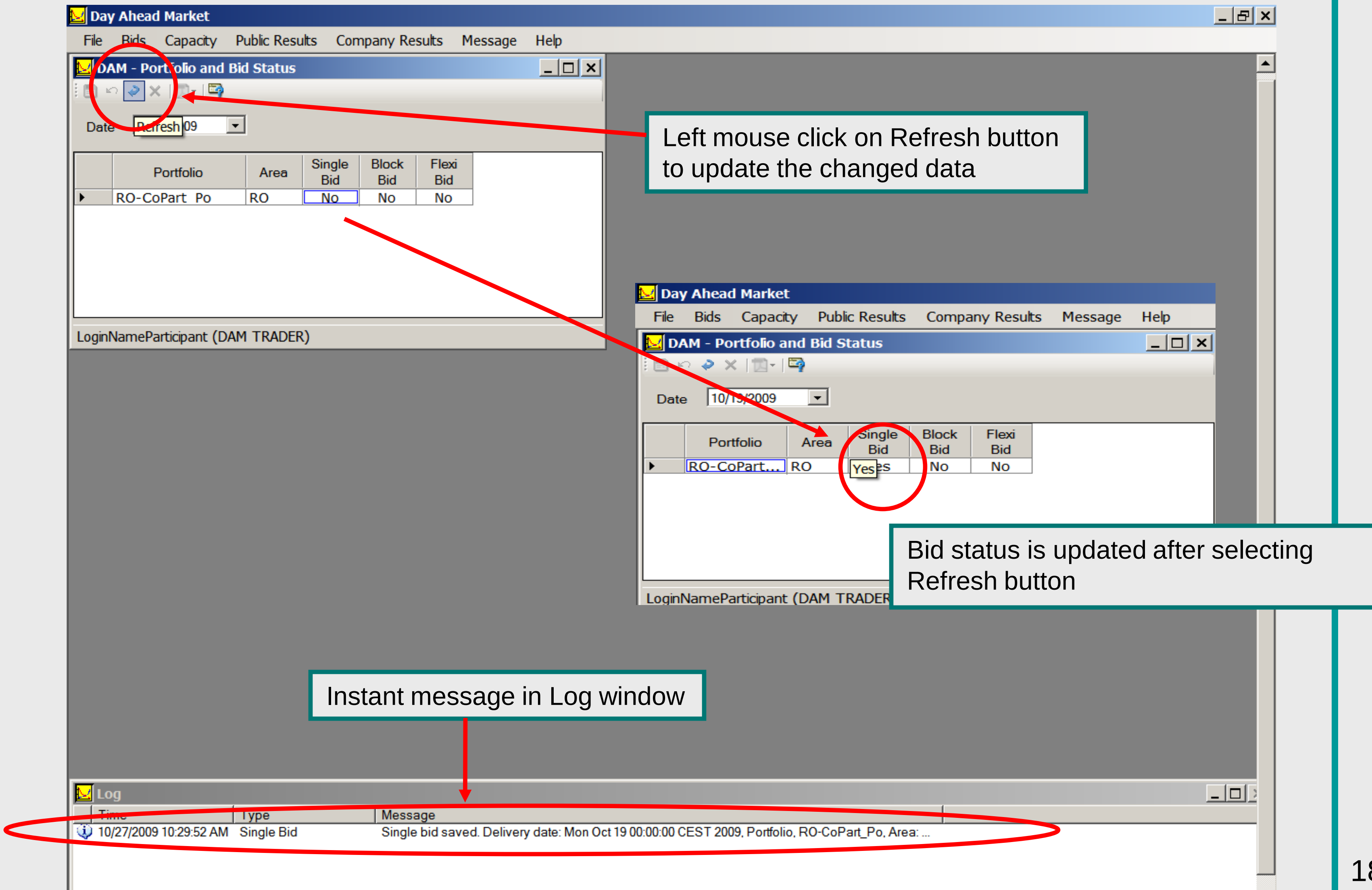
If the bid format respects validation rules, hourly bid is submitted into the system and message "*Single Bid saved*" is displayed.

If the bid format breaches validation rules, the bid is rejected and short information regarding the invalidation motive is provided.

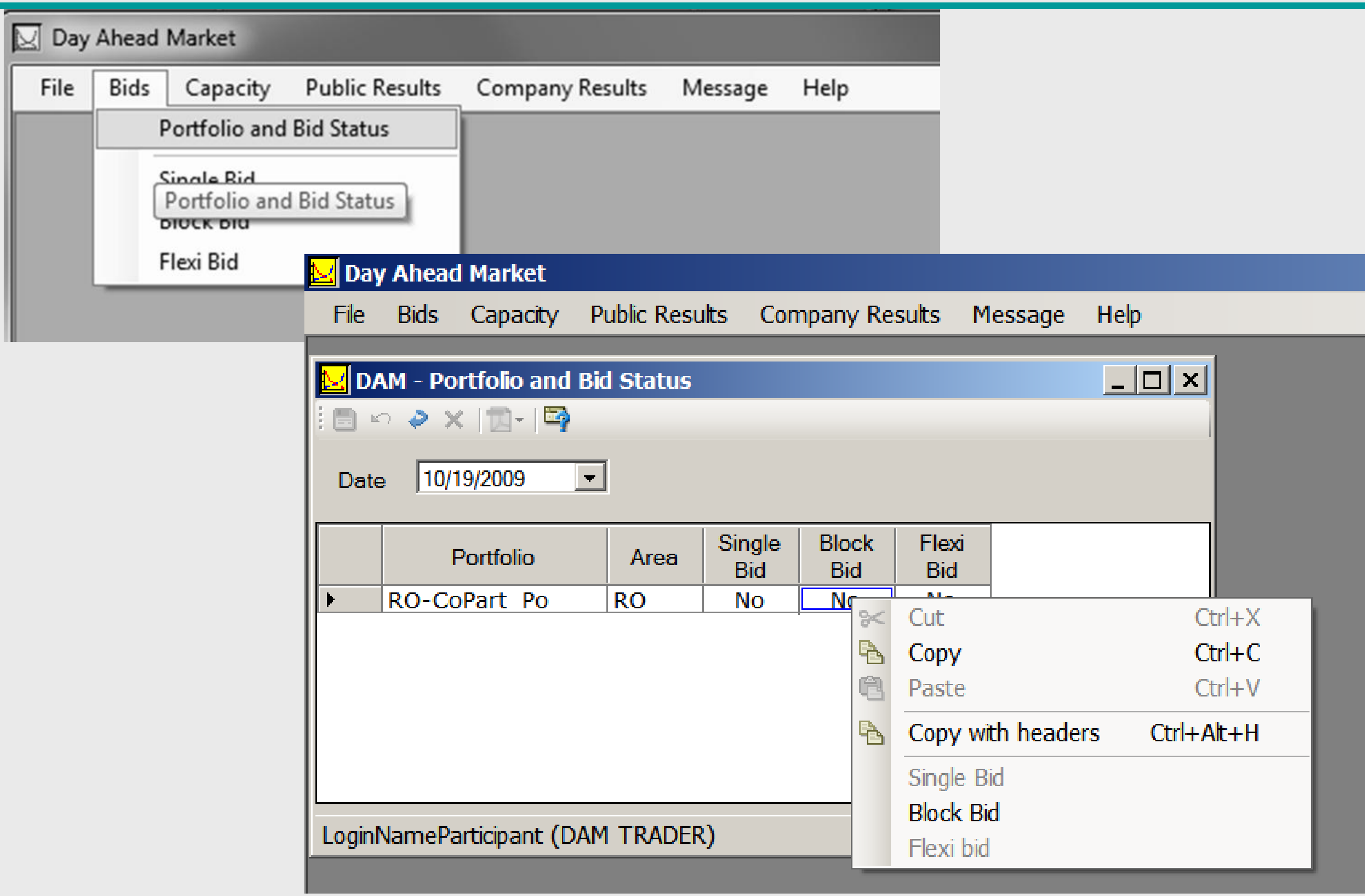
Examples:

* Lack of volume at price displayed
* Only numbers are accepted
* The maximum price limit is missing
* The price row isn't logical

Submitting hourly bid – checking the submission

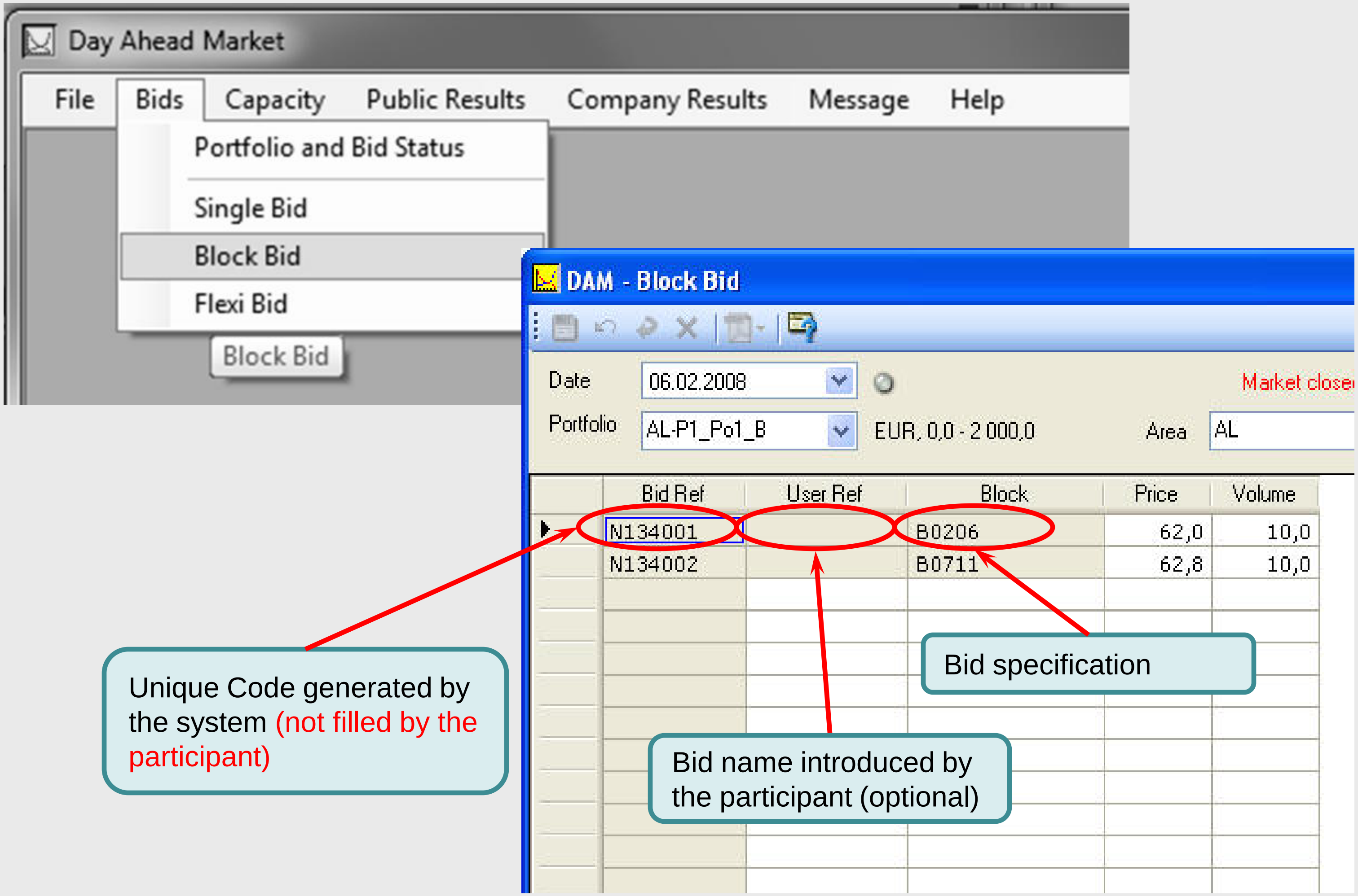


Block Bids



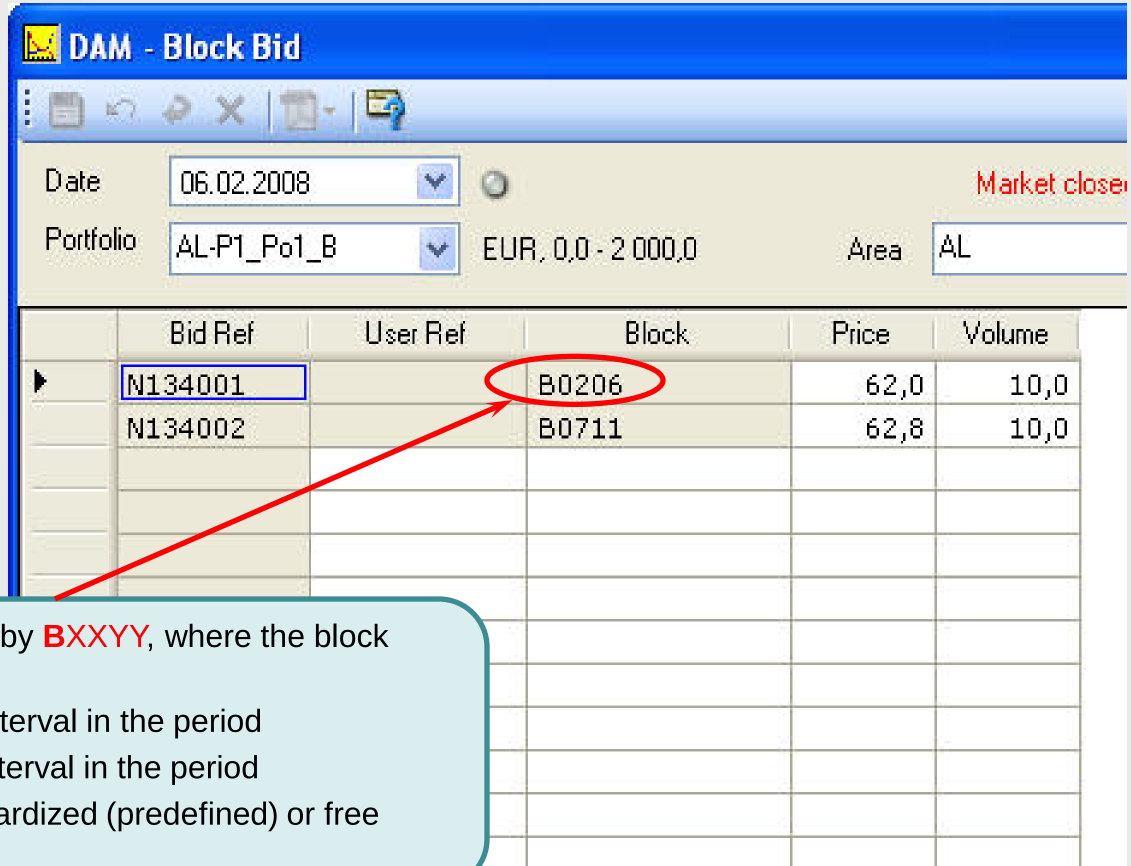
Window for block bids (1):

- Select Bids / Portfolio and Bid Status option
- Left mouse click on cell for portfolio line and block bid type column for selecting the cell
- Right mouse click on selected cell
- Select Block Bid option



Window for block bids (2):

- Select Bids / Block Bid option



Block bids are specified by **B**XXYY, where the block period is defined by:

- XX – the first trading interval in the period
- YY – the last trading interval in the period

Block bids can be standardized (predefined) or free defined by participant

Block bid respects “fill or kill” condition

More than one block bids can be submitted per portfolio

Block bid is defined by period, price and volume

The volume in block bid means hourly average power, the same for all hours in block period.

Flexible Bids

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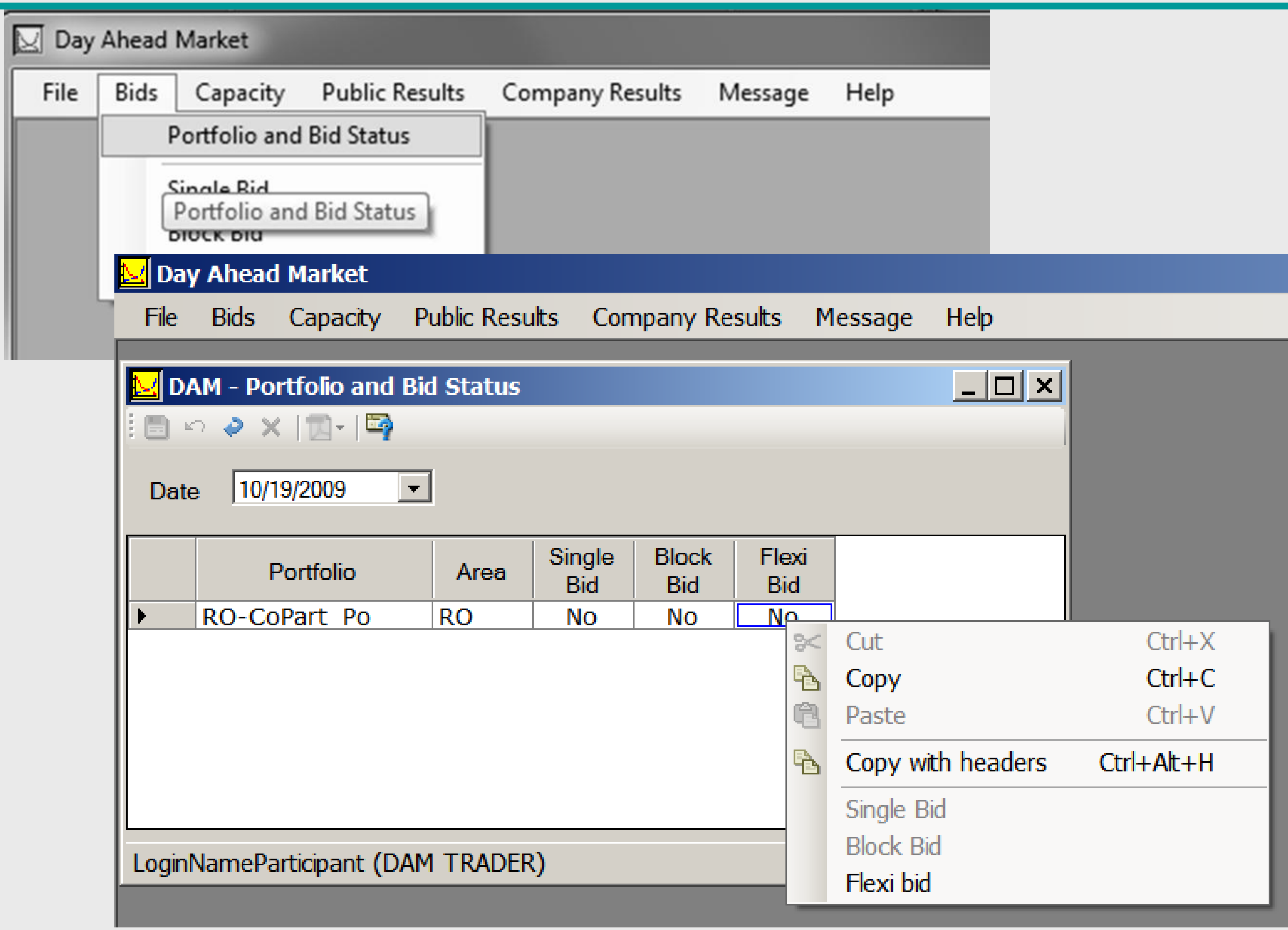
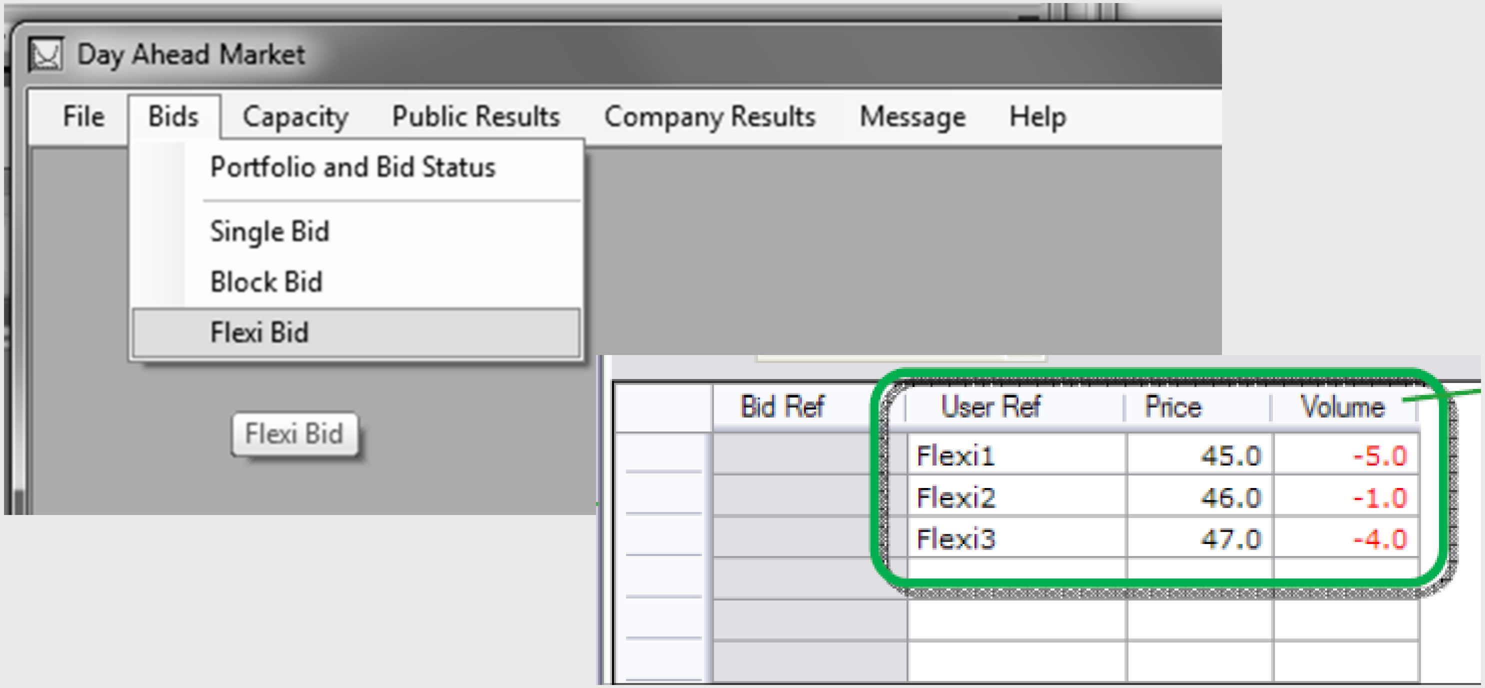


Window for flexible bids (1):

- Select Bids / Portfolio and Bid Status option
- Left mouse click on cell for portfolio line and flexible bid type column for selecting the cell
- Right mouse click on selected cell
- Select Flexi Bid option

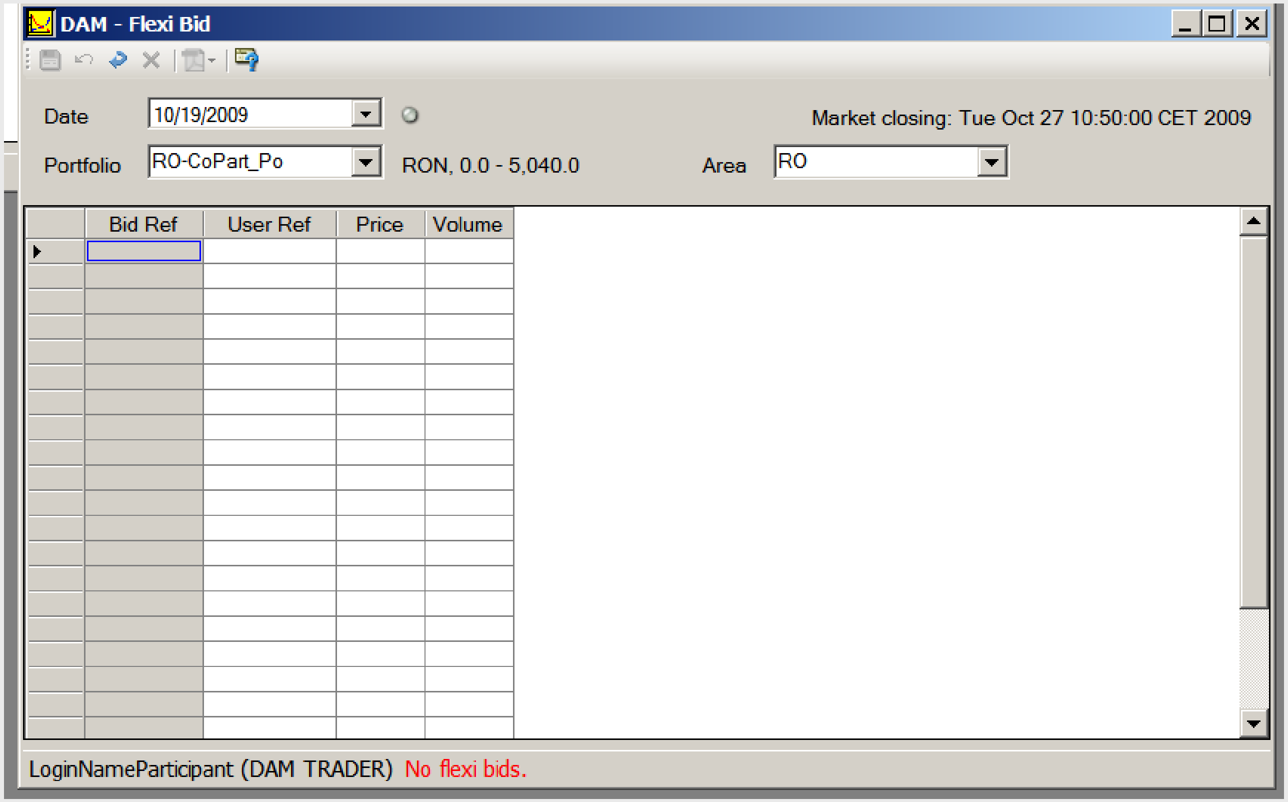


Window for flexible bids (2):

- Select Bids / Flexi Bid option

Flexible bids

New window for flexible bid introduction



Bid Ref	User Ref	Price	Volume
	Flexi1	45.0	-5.0
	Flexi2	46.0	-1.0
	Flexi3	47.0	-4.0

Unique Code generated by the system (not filled by the participant)

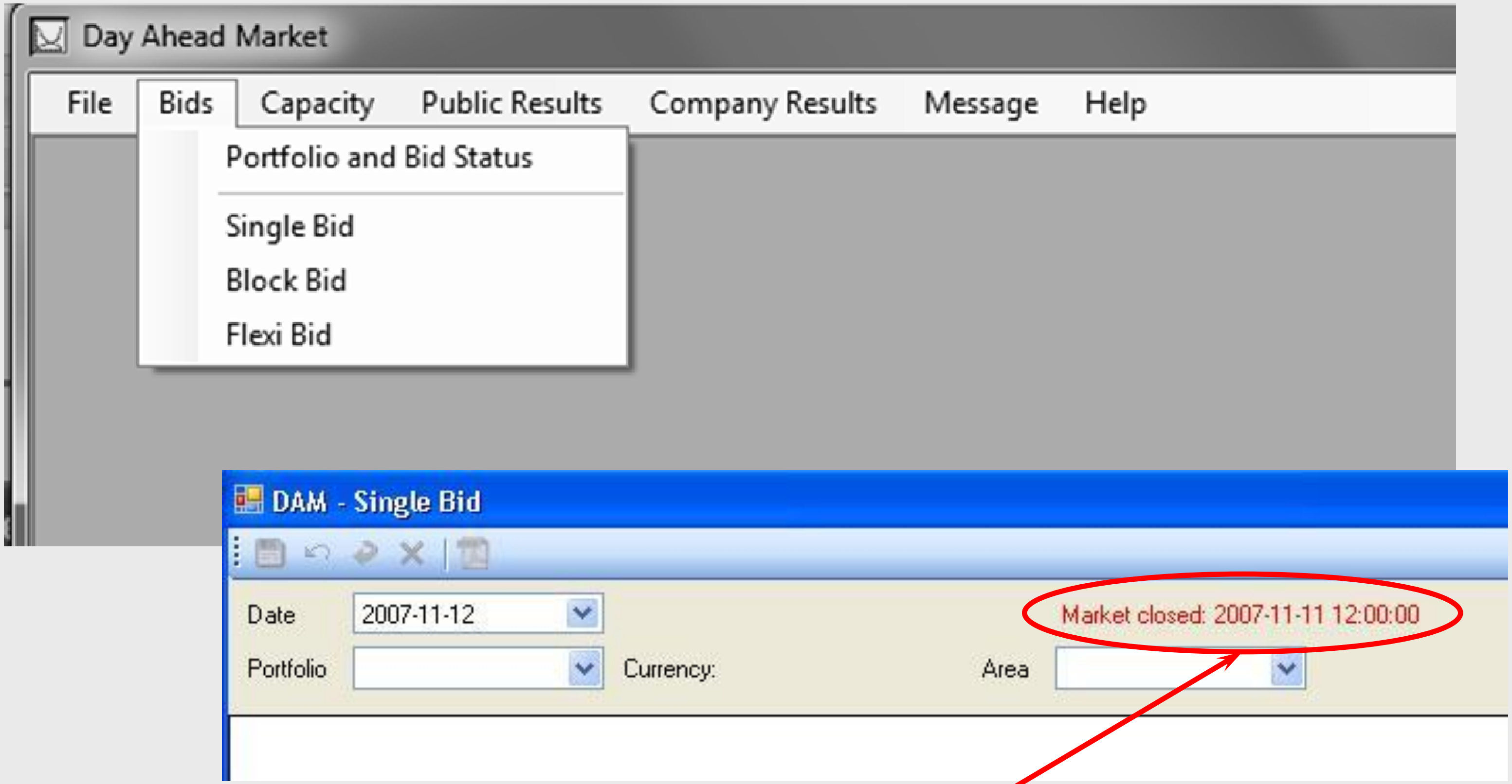
Bid name introduced by the participant (optional)

For hours with maximum price

Defined by one price – volume pair for one hour (hour not specified)

Bid for sell only (negative volume)

Market Closing



After market closing time no more bids can be submitted.

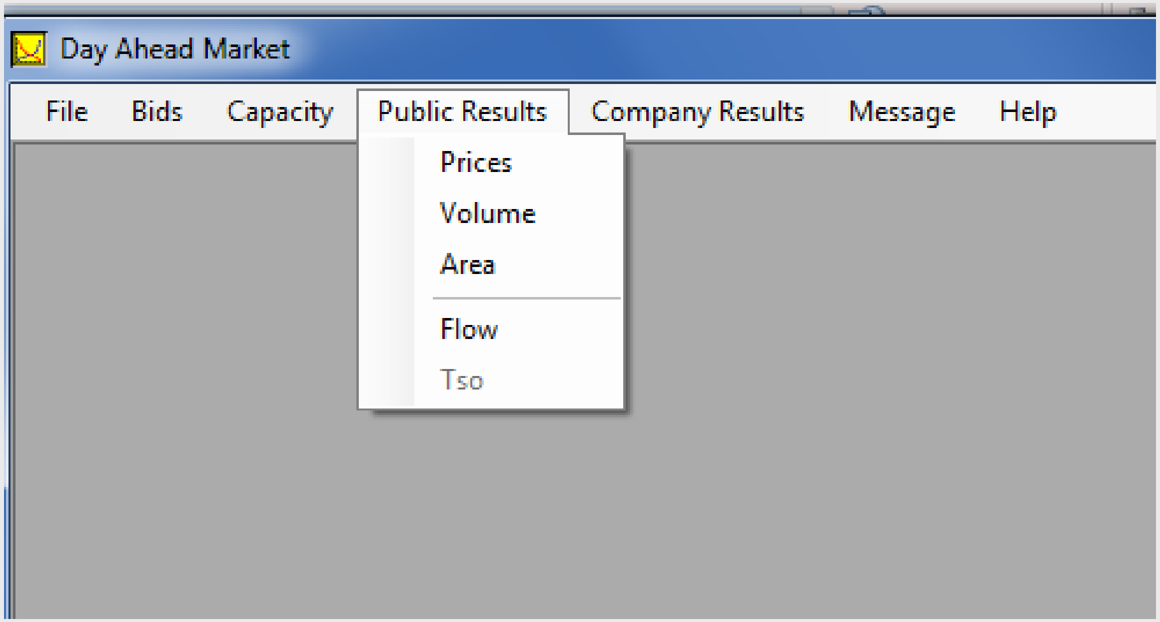
Capacity on Interconnections

WE DON'T USE CAPACITY MENU FOR THE TIME BEING!

DAM Trading Results

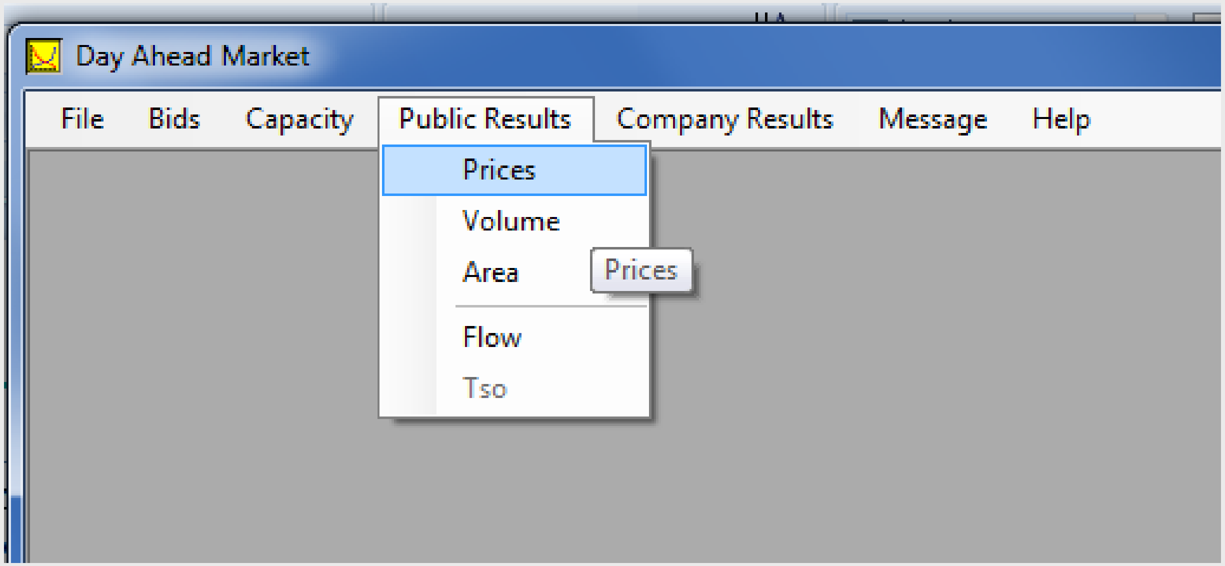
Public Results (aggregated for entire market):

- Market Clearing Prices
- Traded Volumes
- Market Clearing Prices and Volumes per Bidding area

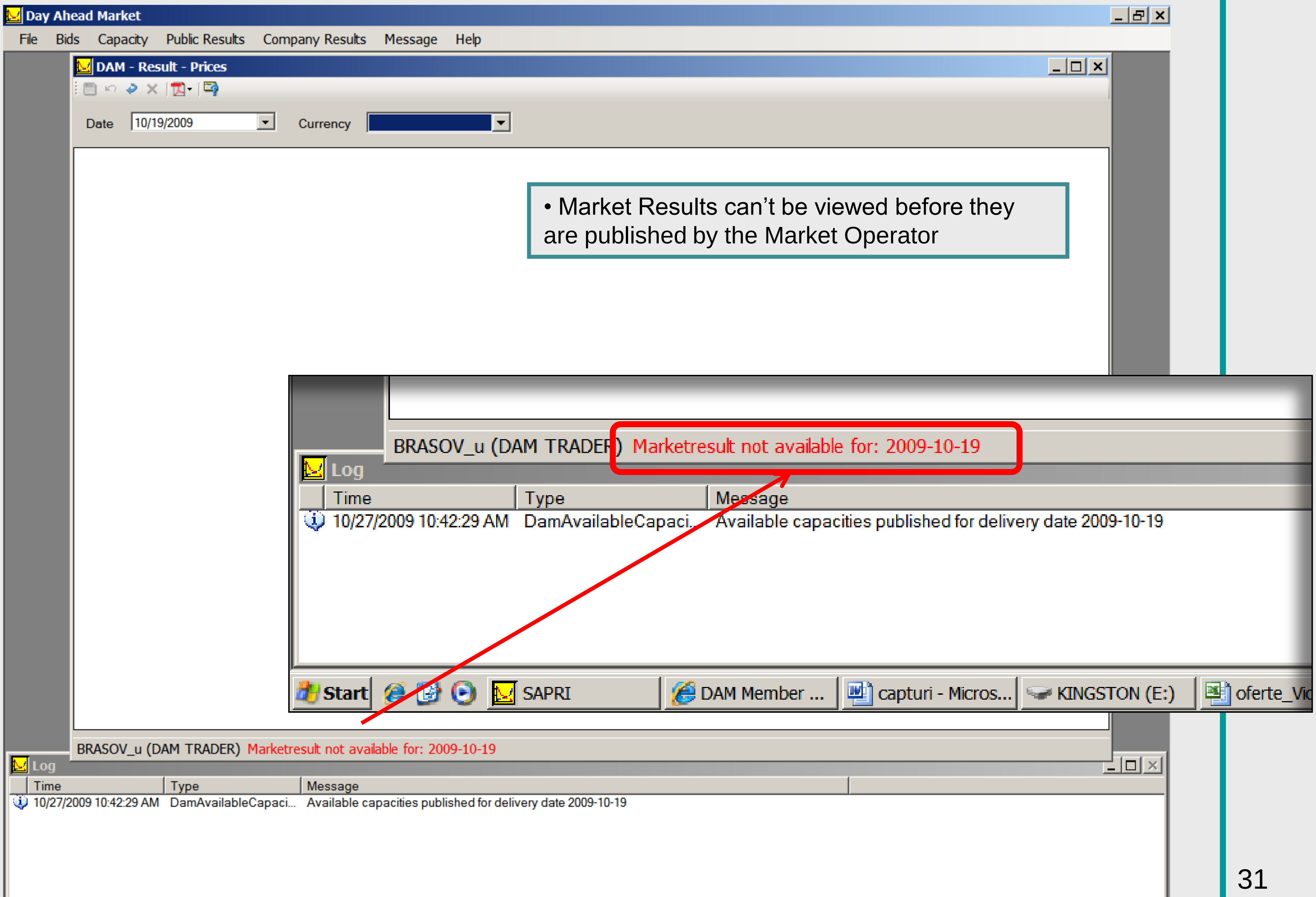


Public Results (agregated for entire market):

- Market Clearing Prices

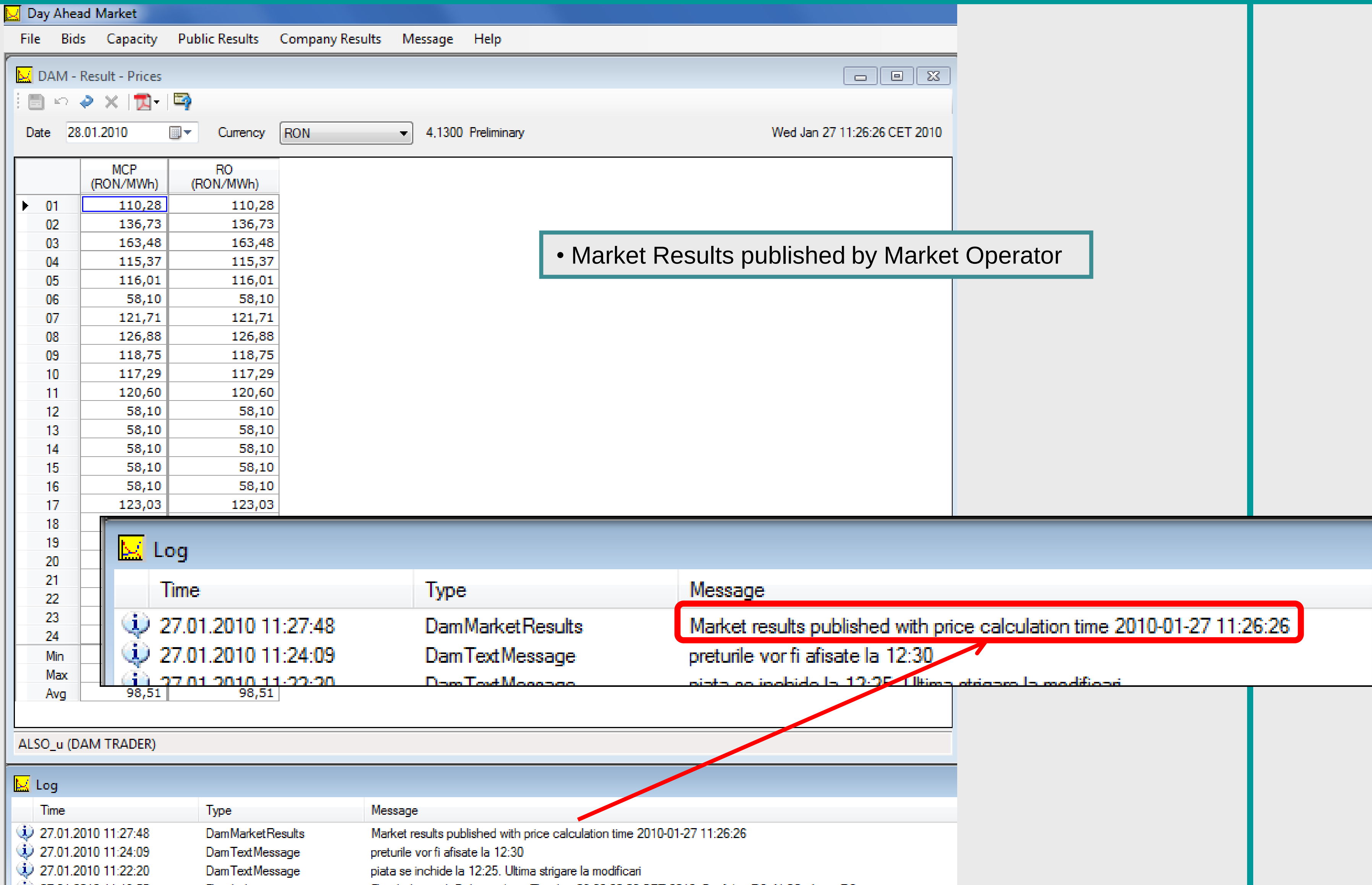


Public Results



- Market Results can't be viewed before they are published by the Market Operator

Public Results



	MCP (RON/MWh)	RO (RON/MWh)
01	110,28	110,28
02	136,73	136,73
03	163,48	163,48
04	115,37	115,37
05	116,01	116,01
06	58,10	58,10
07	121,71	121,71
08	126,88	126,88
09	118,75	118,75
10	117,29	117,29
11	120,60	120,60
12	58,10	58,10
13	58,10	58,10
14	58,10	58,10
15	58,10	58,10
16	58,10	58,10
17	123,03	123,03
18		
19		
20		
21		
22		
23		
24		
Min		
Max		
Avg	98,51	98,51

- Market Results published by Market Operator

The participant will select RON as currency to view his own results

Prices

Day Ahead Market

File Bids Capacity Public Results Company Results Mess

DAM - Result - Prices

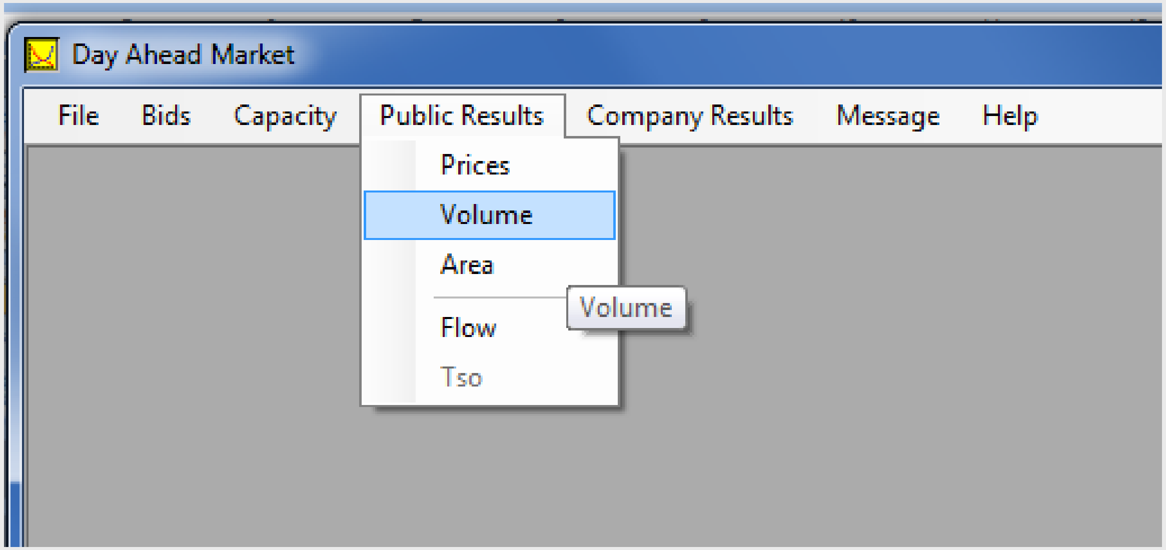
Date 28.01.2010 Currency RON

	MCP (RON/MWh)	RO (RON/MWh)
01	110,28	110,28
02	136,73	136,73
03	163,48	163,48
04	115,37	115,37
05	116,01	116,01
06	58,10	58,10
07	121,71	121,71
08	126,88	126,88
09	118,75	118,75
10	117,29	117,29
11	120,60	120,60
12	58,10	58,10
13	58,10	58,10
14	58,10	58,10
15	58,10	58,10
16	58,10	58,10
17	123,03	123,03
18	123,03	123,03
19	58,10	58,10
20	119,64	119,64
21	58,09	58,09
22	58,09	58,09
23	58,10	58,10
24	170,46	170,46
Min	58,09	58,09
Max	170,46	170,46
Avg	98,51	98,51

- Select the currency for displaying the prices
- System Price – The price for the entire market considering unlimited capacity on interconnections
- Market Clearing Price for bidding area Romania
- Results are displayed for all bidding areas in the market

Public Results (aggregated for entire market):

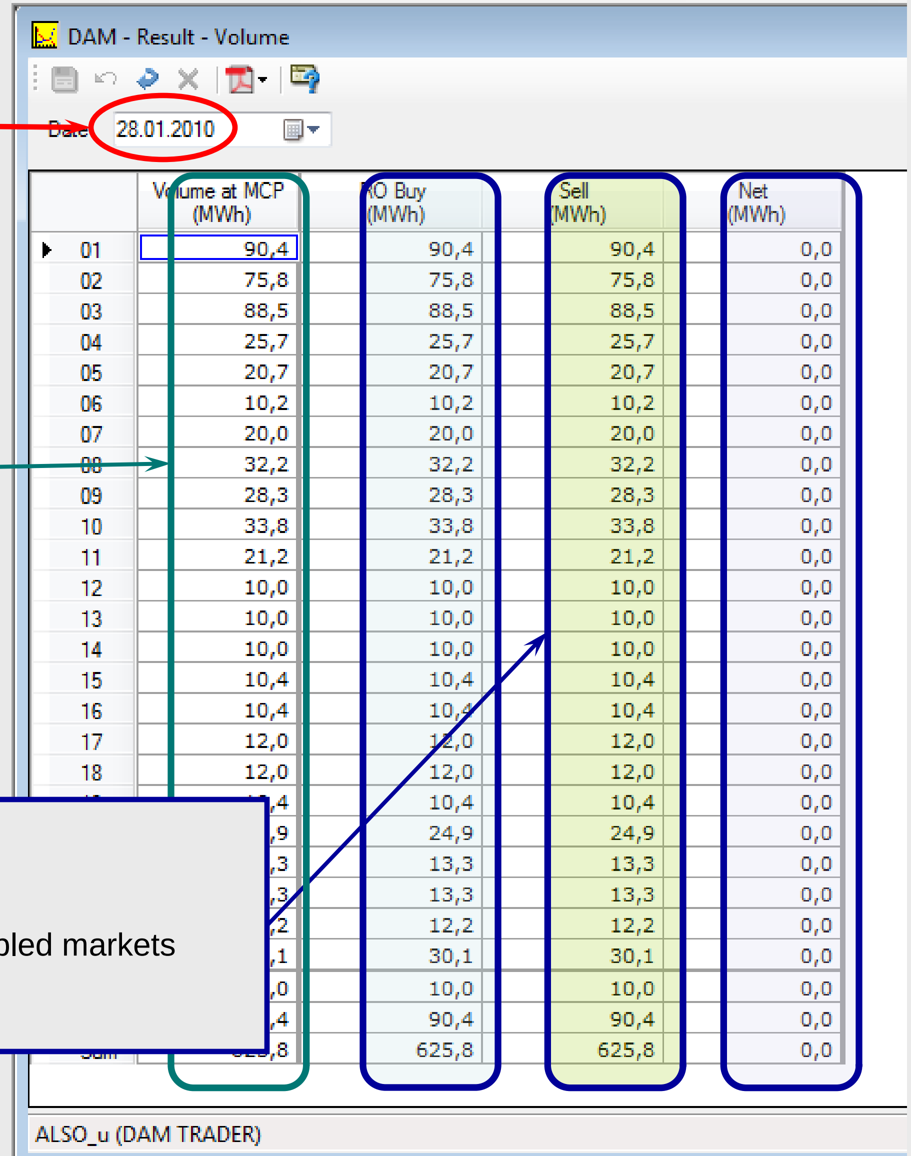
- Traded Volumes



Volumes

• Results are displayed for all bidding areas in the market

• Delivery Day



DAM - Result - Volume

Date 28.01.2010

	Volume at MCP (MWh)	RO Buy (MWh)	Sell (MWh)	Net (MWh)
01	90,4	90,4	90,4	0,0
02	75,8	75,8	75,8	0,0
03	88,5	88,5	88,5	0,0
04	25,7	25,7	25,7	0,0
05	20,7	20,7	20,7	0,0
06	10,2	10,2	10,2	0,0
07	20,0	20,0	20,0	0,0
08	32,2	32,2	32,2	0,0
09	28,3	28,3	28,3	0,0
10	33,8	33,8	33,8	0,0
11	21,2	21,2	21,2	0,0
12	10,0	10,0	10,0	0,0
13	10,0	10,0	10,0	0,0
14	10,0	10,0	10,0	0,0
15	10,4	10,4	10,4	0,0
16	10,4	10,4	10,4	0,0
17	12,0	12,0	12,0	0,0
18	12,0	12,0	12,0	0,0
[illegible]	[illegible]	10,4	10,4	0,0
[illegible]	[illegible]	24,9	24,9	0,0
[illegible]	[illegible]	13,3	13,3	0,0
[illegible]	[illegible]	13,3	13,3	0,0
[illegible]	[illegible]	12,2	12,2	0,0
[illegible]	[illegible]	30,1	30,1	0,0
[illegible]	[illegible]	10,0	10,0	0,0
[illegible]	[illegible]	90,4	90,4	0,0
Sum	[illegible]	625,8	625,8	0,0

ALSO_u (DAM TRADER)

• Total traded volume on all coupled bidding areas (sum of volumes traded in all bidding areas)

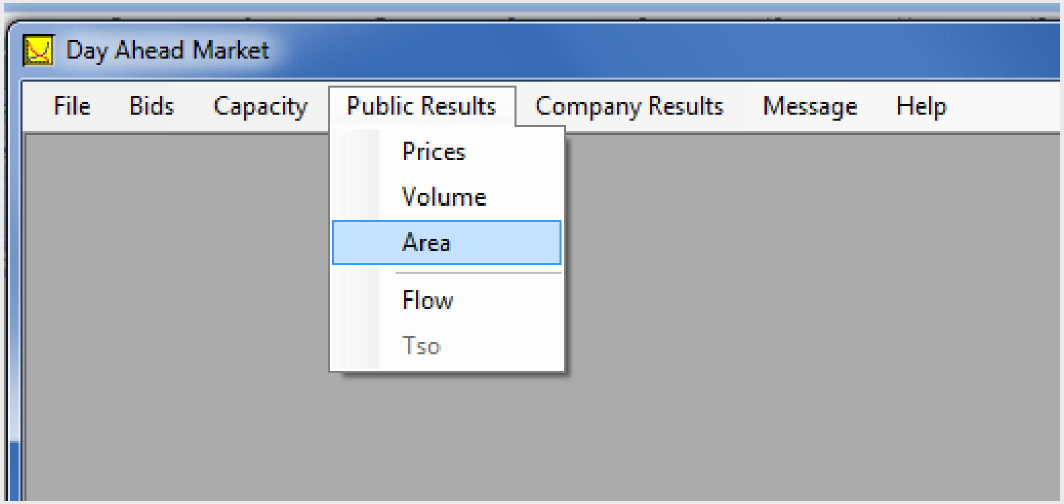
• Aggregated traded volume in each bidding area
- Buy
- Sell
- Net – negative for import
  – positive for export
  – zero for isolated area

for coupled markets

Public Results

Public Results (aggregated for entire market):

- Market Clearing Prices and Volumes per Bidding area



Public Results

Results per Bidding Area

• Bidding Area

DAM - Result - Area

Date 10/19/2009 Area RO Tue

Currency RON 4.3000 Preliminary

	MCP (RON/MWh)	Area price (RON/MWh)	Buy (MWh)	Sell (MWh)	Net (MWh)
01	40.04	40.04	240.3	240.3	0.0
02	20.23	20.23	346.8	346.8	0.0
03	20.25	20.25	376.2	376.2	0.0
04	20.23	20.23	353.6	353.6	0.0
05	20.16	20.16	238.8	238.8	0.0
06	20.23	20.23	351.0	351.0	0.0
07	20.37	20.37	186.8	186.8	0.0
08	20.38	20.38	189.8	189.8	0.0
09	20.39	20.39	195.2	195.2	0.0
10	20.39	20.39	196.4	196.4	0.0
11	20.37	20.37	188.6	188.6	0.0
12	20.31	20.31	154.6	154.6	0.0
13	20.31	20.31	154.0	154.0	0.0
14	20.30	20.30	150.0	150.0	0.0
15	20.31	20.31	158.2	158.2	0.0
16	20.33	20.33	165.8	165.8	0.0
17	20.37	20.37	180.8	180.8	0.0
18	20.37	20.37	181.2	181.2	0.0
		20.36	178.3	178.3	0.0
		20.34	169.8	169.8	0.0
		20.29	152.6	152.6	0.0
		20.27	149.1	149.1	0.0
		20.30	150.6	150.6	0.0
		20.29	145.8	145.8	0.0
		20.16	145.8	145.8	0.0
		40.04	376.2	376.2	0.0
Avg	21.13	21.13			
Sum			4,954.3	4,954.3	0.0

• Market Prices for Bidding Area

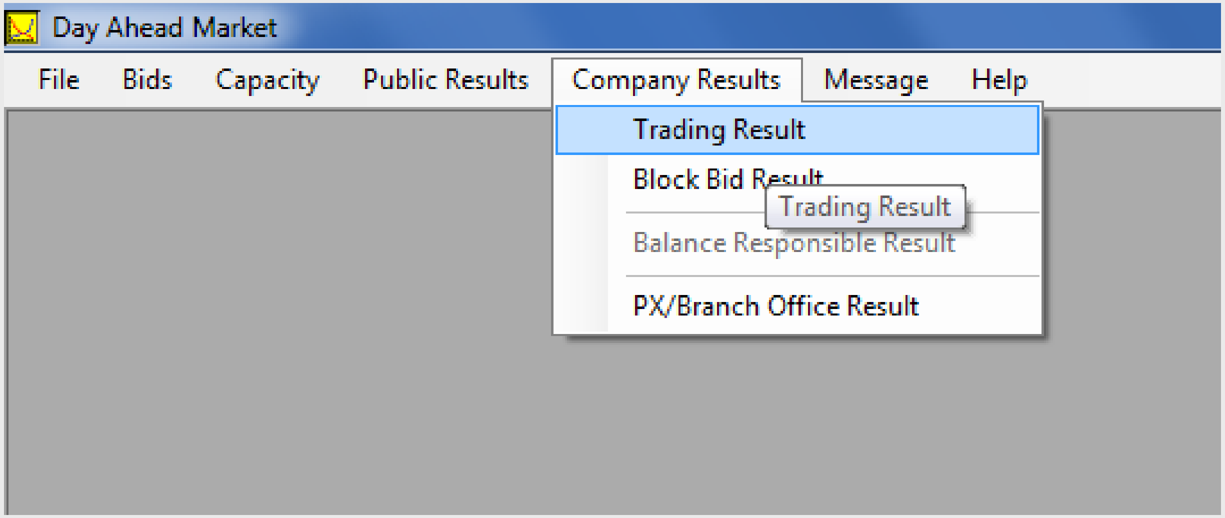
• System Price – The price for entire market considering unlimited capacity on interconnections

• Aggregated traded volume in each bidding area
  - Buy
  - Sell
  - Net – negative for import – positive for export – zero for isolated area

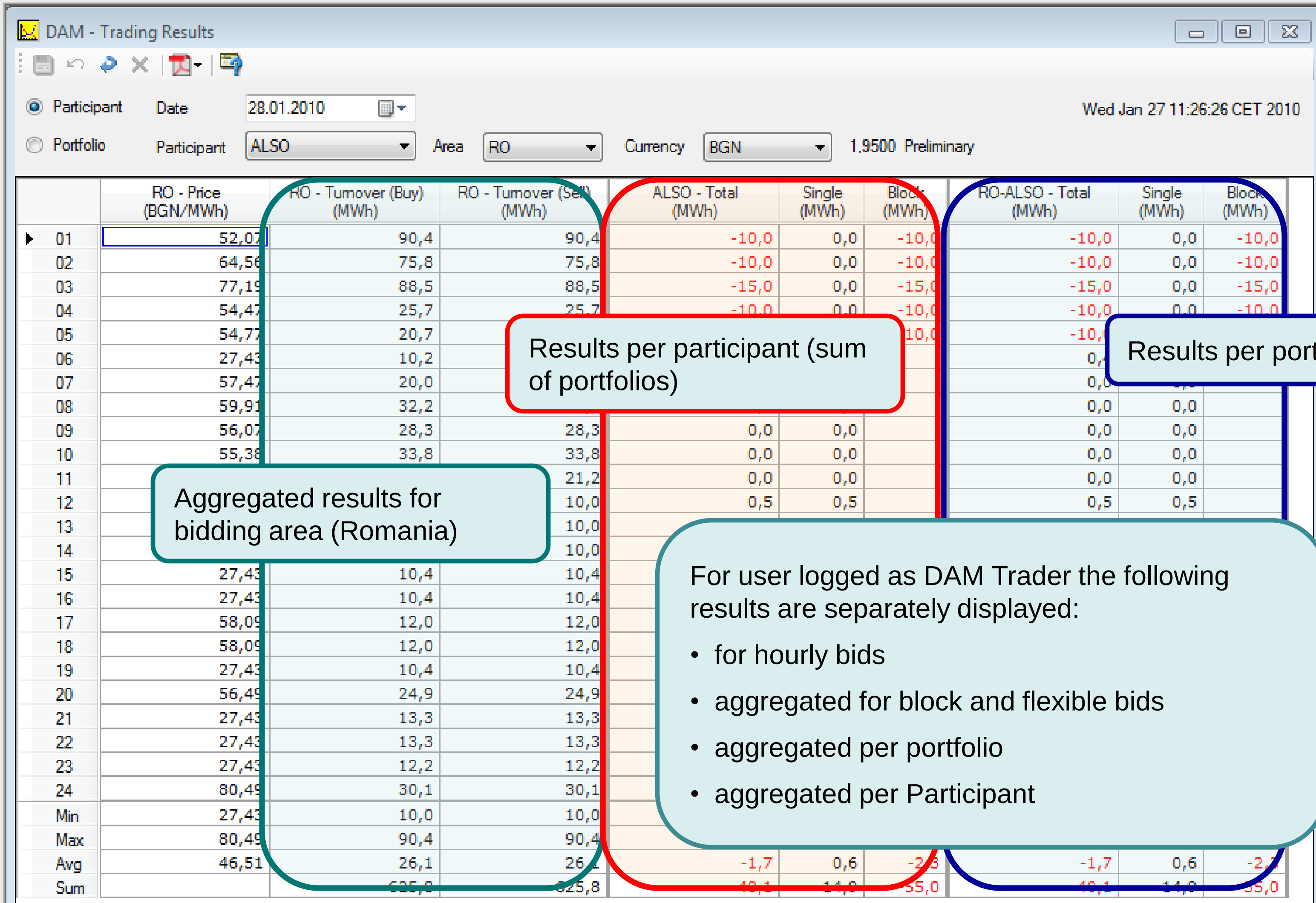
for coupled markets

Specific results for participant:

- Trading results



Trading Results



In case the participant has one portfolio, the results for portfolio and for participant are identically.

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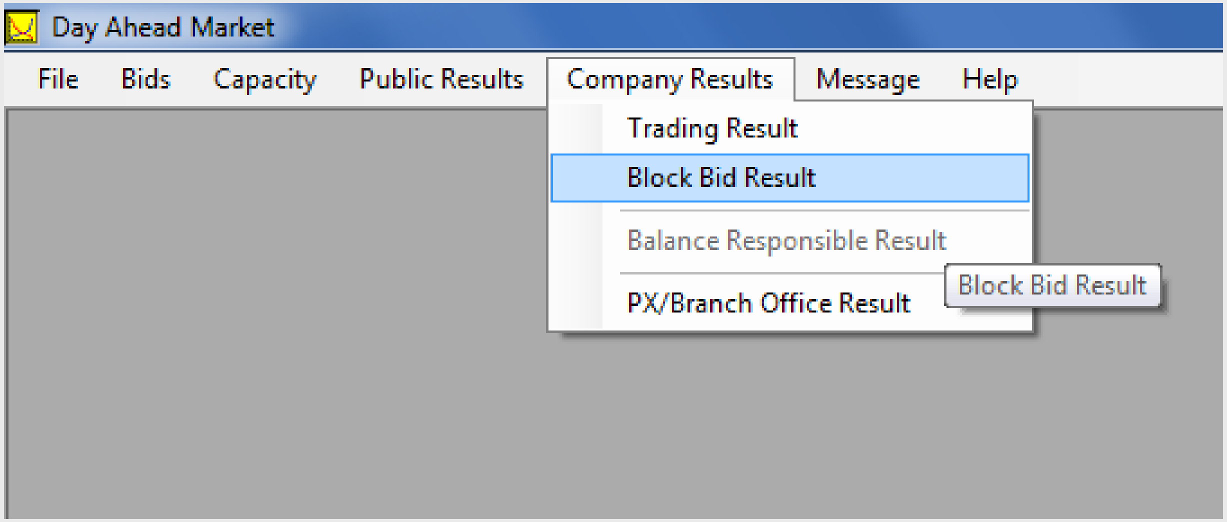
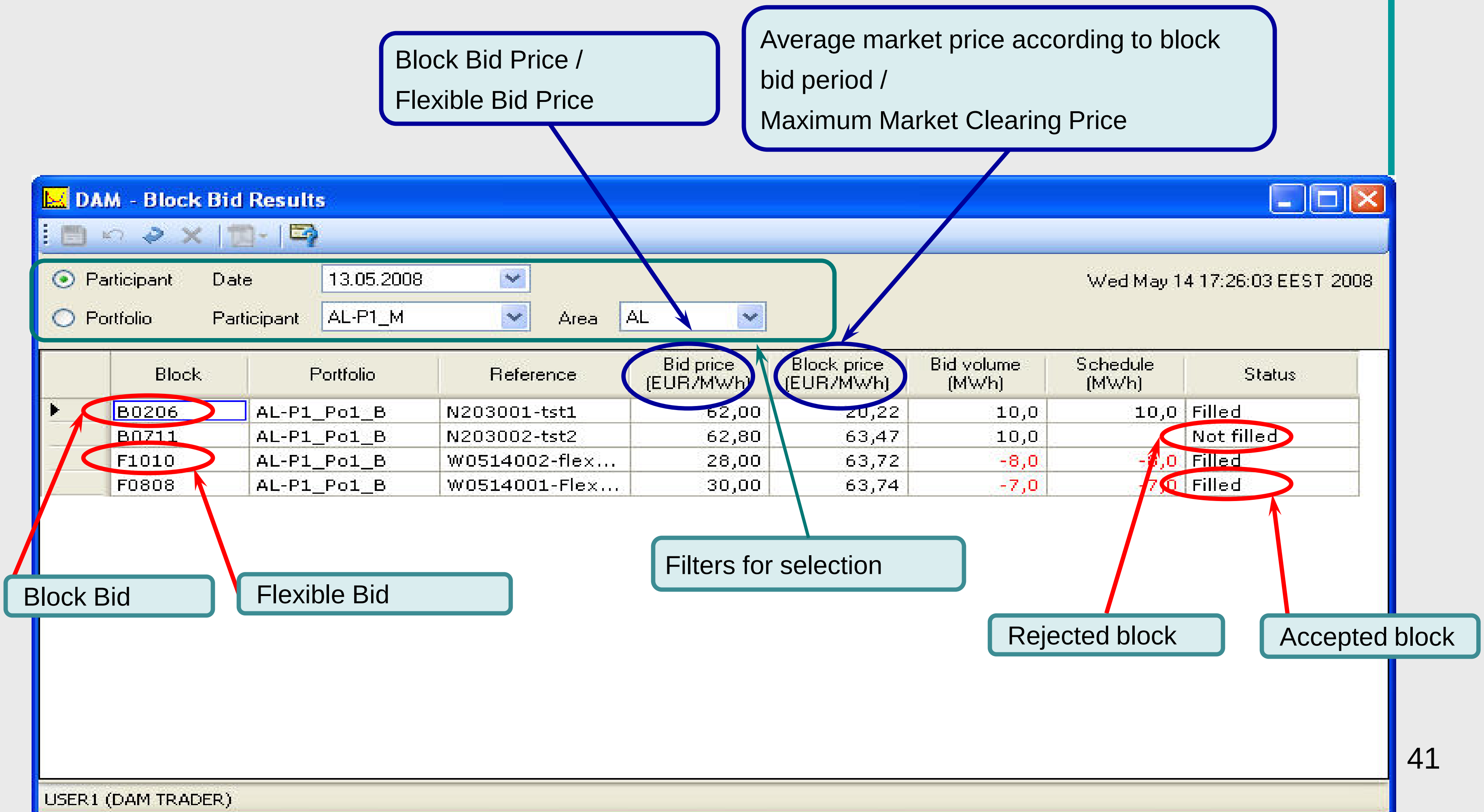
Specific results for participant:

- Block Bid Result

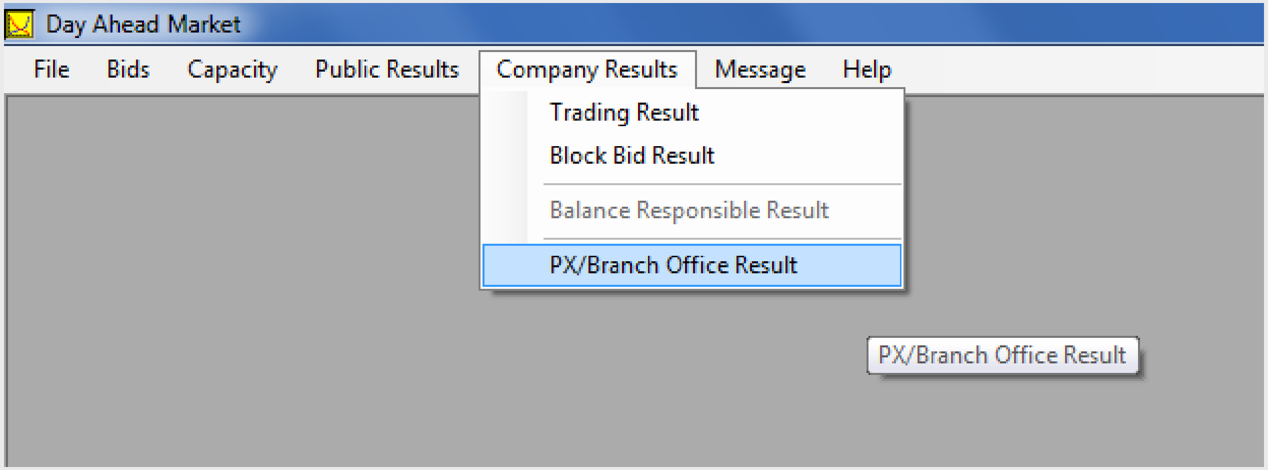


Block Bid result

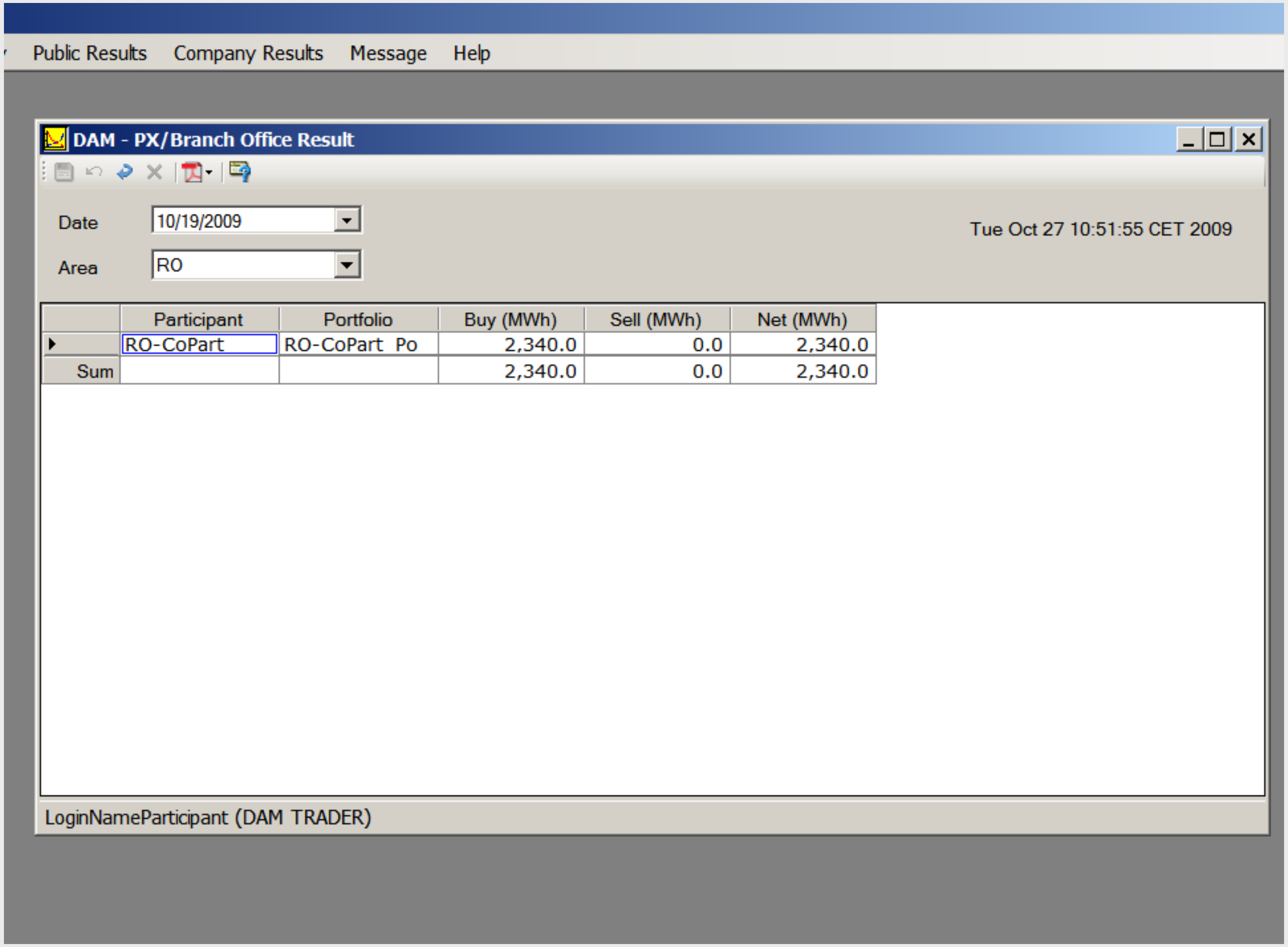


Specific results for participant:

- Daily Summary



Daily Summary



Balance Responsible Results

Balance Responsible Party can view trading results by connecting with Balance responsible role

Day Ahead Market

File | Bids | Capacity | Public Results | Company Results | Message | Help

Company Results menu: Trading Result; Block Bid Result; Balance Responsible Result; PX/Branch Office Result

Dam - Balance Responsible Result

Date: 26.11.2009 | Thu Nov 26 15:04:19 CET 2009

BRC: ELECTRICA | Area: RO | Currency: EUR | 1,0000 System currency

	RO - Price (EUR/MWh)	RO - Turnover (Buy) (MWh)	RO - Turnover (Sell) (MWh)	ELECTRICA - Total (MWh)	RO-GOVORA - Total (MWh)	RO-ROMELECTR - Total (MWh)	RO-ENELMUNT - Total (MWh)	RO-FIDELIS - Total (MWh)	RO-PETPROD - Total (MWh)	RO-MOLDOVA - Total (MWh)	RO-MUNTENIAN - Total (MWh)	RO-ENELTRADE - Total (MWh)
01	14,16	1.113,5	1.113,5	439,8	-33,0	30,0	0,0	0,0	0,0	242,8	200,0	0,0
02	14,13	1.051,3	1.051,3	340,0	-33,0	30,0	0,0	0,0	0,0	143,0	200,0	0,0
03	14,17	1.308,1	1.308,1	634,8	-33,0	30,0	0,0	0,0	0,0	342,8	300,0	-5,0
04	14,16	1.198,7	1.198,7	539,9	-33,0	30,0	0,0	0,0	0,0	242,9	300,0	0,0
05	14,15	1.222,6	1.222,6	639,9	-33,0	30,0	0,0	0,0	0,0	342,9	300,0	0,0
06	14,15	1.180,4	1.180,4	539,9	-33,0	30,0	0,0	0,0	0,0	242,9	300,0	0,0
07	14,12	1.228,5	1.228,5	640,1	-33,0	30,0	0,0	0,0	0,0	343,1	300,0	0,0
08	13,49	1.156,0	1.156,0	542,9	-33,0	30,0	-1,0	0,0	0,0	246,9	300,0	0,0
09	14,1[illegible]	1.258,7	1.258,7	639,0	-33,0	30,0	-1,0	0,0	0,0	343,0	300,0	0,0
10	14,12	1.185,7	1.185,7	539,1	-33,0	30,0	-1,0	0,0	0,0	243,1	300,0	0,0
11	14,16	1.183,0	1.183,0	638,8	-33,0	30,0	-1,0	0,0	0,0	342,8	300,0	0,0
12	14,15	1.065,7	1.065,7	540,4	-33,0	30,0	0,5	0,0	0,0	242,9	300,0	0,0
13	14,16	1.152,7	1.152,7	640,3	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
14	14,15	1.063,1	1.063,1	539,9	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
15	14,16	1.156,3	1.156,3	639,3	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
16	14,12	1.150,0	1.150,0	540,1	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
17	14,13	1.253,8	1.253,8	642,0	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
18	14,12	1.162,8	1.162,8	541,1	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
19	14,13	1.272,2	1.272,2	641,0	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
20	14,16	1.102,3	1.102,3	539,8	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
21	14,16	1.169,1	1.169,1	588,3	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
22	14,15	1.041,0	1.041,0	487,9	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
23	14,16	1.126,4	1.126,4	539,9	-33,0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0,0
24	14,14	995,0	995,0	440,0	-33,0	30,0	0,0	0,0	0,0	243,0	200,0	0,0
Min	13,49	995,0	995,0	340,0	-33,0	30,0	-2,0	0,0	0,0	143,0	200,0	-5,0
Max	14,17	1.308,1	1.308,1	642,0	-33,0	30,0	2,0	0,0	0,0	343,1	300,0	0,0
Avg	14,12	1.158,2	1.158,2	560,6	-33,0	30,0	-0,1	0,0	0,0	284,8	279,2	-0,2
Sum		27.796,9	27.796,9	13.454,2	-792,0	720,0	-3,0	0,0	0,0	6.834,2	6.700,0	-5,0

ELECTRICA_u (BALANCE RESPONSIBLE)

- The user logged with Balance Responsible role can view results for all portfolios which BR assumed balance responsibility for.

The Physical Notification can be downloaded and saved

Physical Notification (.xml)

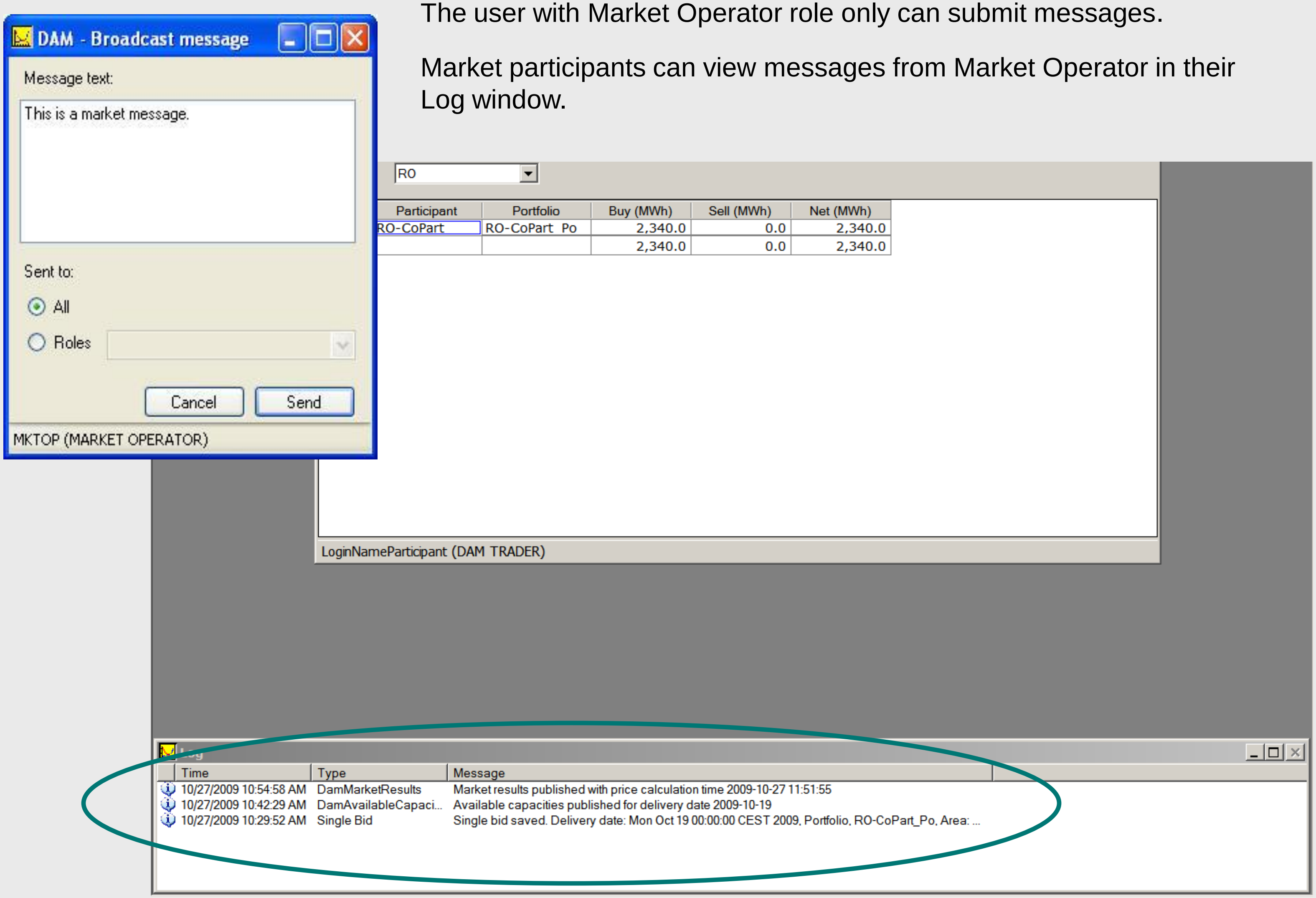

```
<?xml version="1.0" encoding="UTF-8" ?>
- <sch:ScheduleMessage DtdRelease="2" DtdVersion="3"
xmlns:sch="http://www.nasdaqomx.com.v2r3/schedule-xml.xsd">
  <sch:MessageIdentification v="BRPHYNO_30XROELECTRICA-S_20091126" />
  <sch:MessageVersion v="1" />
  <sch:MessageType v="A01" />
  <sch:ProcessType v="A01" />
  <sch:ScheduleClassificationType v="A01" />
  <sch:SenderIdentification codingScheme="A01" v="30XROELECTRICA-S" />
  <sch:SenderRole v="A01" />
  <sch:ReceiverIdentification codingScheme="A01" v="10XRO-TEL------2" />
  <sch:ReceiverRole v="A04" />
  <sch:MessageDateTime v="2009-11-27T10:12:50.718+01:00" />
  <sch:ScheduleTimeInterval v="2009-11-25T23:00Z/2009-11-26T23:00Z" />
- <sch:ScheduleTimeSeries>
  <sch:SendersTimeSeriesIdentification v="DELIVERY" />
  <sch:SendersTimeSeriesVersion v="1" />
  <sch:BusinessType v="A02" />
  <sch:Product v="8716867000016" />
  <sch:ObjectAggregation v="A03" />
  <sch:InArea codingScheme="A01" v="10YRO-TEL-----P" />
  <sch:OutArea codingScheme="A01" v="10YRO-TEL-----P" />
  <sch:InParty codingScheme="A01" v="30XROOPCOM-----C" />
  <sch:OutParty codingScheme="A01" v="30XROELECTRICA-S" />
  <sch:MeasurementUnit v="MAW" />
- <sch:Period>
  <sch:TimeInterval v="2009-11-25T23:00Z/2009-11-26T23:00Z" />
  <sch:Resolution v="PT60M" />
- <sch:Interval>
  <sch:Pos v="1" />
  <sch:Qty v="0.0" />
  </sch:Interval>
- <sch:Interval>
  <sch:Pos v="2" />
  <sch:Qty v="0.0" />
  </sch:Interval>
- <sch:Interval>
  <sch:Pos v="3" />
  <sch:Qty v="0.0" />
  </sch:Interval>
```

Log and Messages

Messages

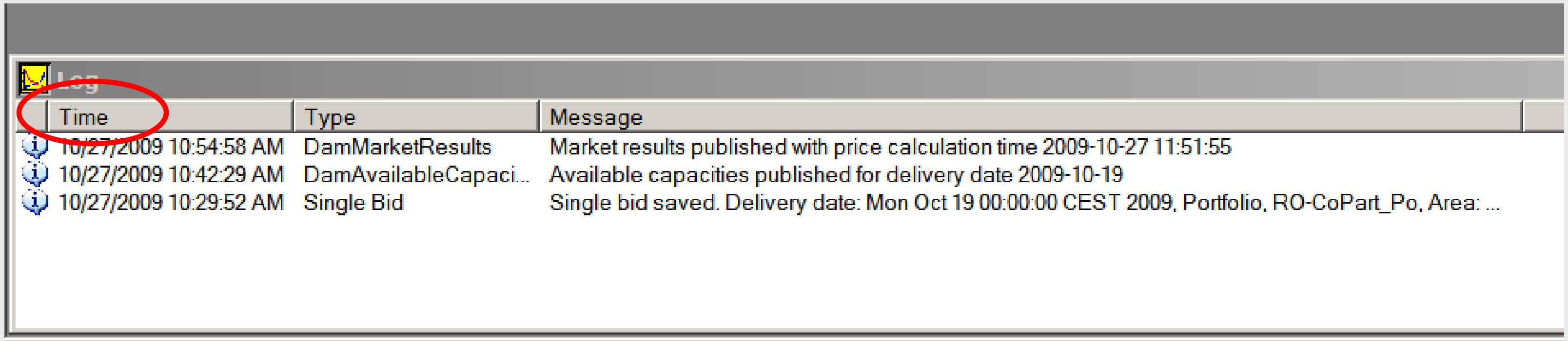
The user with Market Operator role only can submit messages.

Market participants can view messages from Market Operator in their Log window.



System messages regarding actions in the system and text messages submitted by Market operator can be viewed here.

Registering log



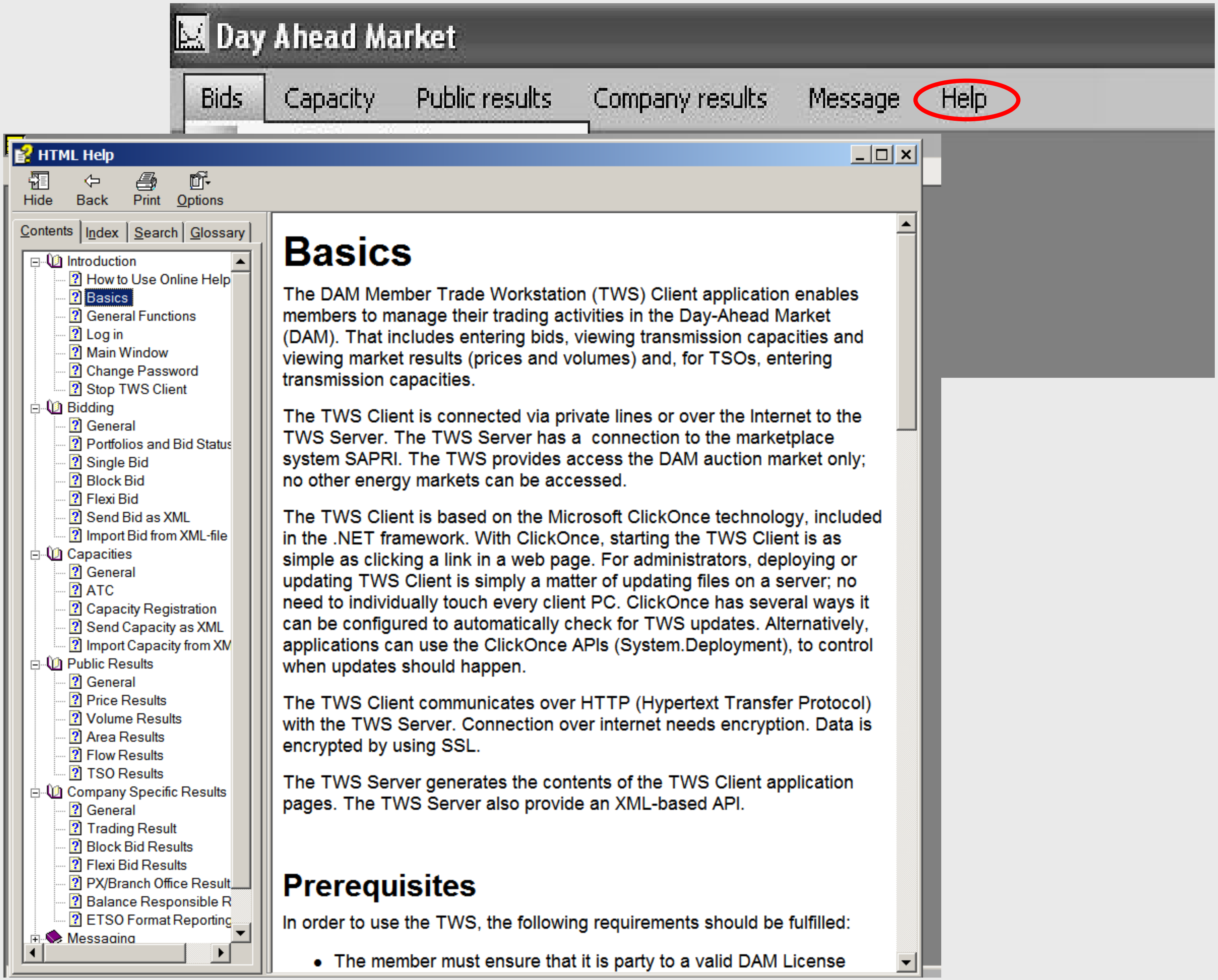
Time	Type	Message
10/27/2009 10:54:58 AM	DamMarketResults	Market results published with price calculation time 2009-10-27 11:51:55
10/27/2009 10:42:29 AM	DamAvailableCapaci...	Available capacities published for delivery date 2009-10-19
10/27/2009 10:29:52 AM	Single Bid	Single bid saved. Delivery date: Mon Oct 19 00:00:00 CEST 2009, Portfolio, RO-CoPart_Po, Area: ...

- All actions made during the access period of the participant are registered
  - system messages:
    - bids submission (saving),
    - warnings regarding market parameters and market results publication
  - messages sent by Market Operator

System messages can’t be translated for interface in Romanian language

- Records in log are preserved in participant interface for a limited period of time
- **The log window is automatically updated**
- Selection of Time option is recommended in order to see firstly the latest messages

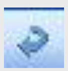
Help


Day Ahead Market
Bids
Capacity
Public results
Company results
Message
Help
HTML Help
Hide
Back
Print
Options
Contents
Index
Search
Glossary
Introduction
How to Use Online Help
Basics
General Functions
Log in
Main Window
Change Password
Stop TWS Client
Bidding
General
Portfolios and Bid Status
Single Bid
Block Bid
Flexi Bid
Send Bid as XML
Import Bid from XML-file
Capacities
General
ATC
Capacity Registration
Send Capacity as XML
Import Capacity from XM
Public Results
General
Price Results
Volume Results
Area Results
Flow Results
TSO Results
Company Specific Results
General
Trading Result
Block Bid Results
Flexi Bid Results
PX/Branch Office Result
Balance Responsible R
ETSO Format Reporting
Messaging
Basics
The DAM Member Trade Workstation (TWS) Client application enables members to manage their trading activities in the Day-Ahead Market (DAM). That includes entering bids, viewing transmission capacities and viewing market results (prices and volumes) and, for TSOs, entering transmission capacities.
The TWS Client is connected via private lines or over the Internet to the TWS Server. The TWS Server has a connection to the marketplace system SAPRI. The TWS provides access the DAM auction market only; no other energy markets can be accessed.
The TWS Client is based on the Microsoft ClickOnce technology, included in the .NET framework. With ClickOnce, starting the TWS Client is as simple as clicking a link in a web page. For administrators, deploying or updating TWS Client is simply a matter of updating files on a server; no need to individually touch every client PC. ClickOnce has several ways it can be configured to automatically check for TWS updates. Alternatively, applications can use the ClickOnce APIs (System.Deployment), to control when updates should happen.
The TWS Client communicates over HTTP (Hypertext Transfer Protocol) with the TWS Server. Connection over internet needs encryption. Data is encrypted by using SSL.
The TWS Server generates the contents of the TWS Client application pages. The TWS Server also provide an XML-based API.
Prerequisites
In order to use the TWS, the following requirements should be fulfilled:
• The member must ensure that it is party to a valid DAM License

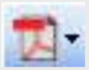
Toolbar Buttons

 • **Save**. Sends data to Market Operator.

 • **Undo**. Cancels all changes since latest storing and re-displays stored data.

 • **Refresh**. Fetches latest stored data and updates window.

 • **Delete**. Deactivates (cancels) stored data.

 • **Reports**. Starts report to file in PDF or XML format.

 • **Help**. Opens the online help system.

Remarks and Recommendations

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Important:

* Any changes in bids are uploaded in the system after selecting **Save** options only

* For viewing any changes saved in the system the **Refresh** button must be selected

* It is the participant responsibility to check if his bid was uploaded in the system (by checking the log and by refreshing the *Portfolio and Bid Status option*)

* The last saved valid bid in the system is considered in calculation and is the only visible for participant

* Prices and volumes are introduced with one decimal only. Dot or comma can be used as decimal separator according to the personal computer settings.

* Part from the menu isn’t relevand for one bidding area only, but for more coupled bidding areas through implicit auctions (capacity menu etc.)

* The price scale limits are displayed in windows for offers all the time

* Volumes in offers for different prices are not cumulated. The stated volumes represent total volumes representing participant ’s view at respective price.

Recommendations:

* We reccomend to create bid in an Excel sheet and then Copy and Paste it in the system. Excel soft allows more easily handling of the data

* Cell settings in Excel must be appropriately selected: category number with 1 decimal place. Otherwise errors will be generated.

* A table wiil be filled for bid with prices (in the first row) and volumes

• Selected zone to copy

(with/without the column for hourly intervals)

	0								5040
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Invalidated bids Ex.1

Missing volume at price ***P***:

The hourly bid must have at least one volume for each defined price.

	0	20	20,1	149,9	150	199,9	200	220	249,9	250	5040
											0
											0
											0
4	10	10	0								0
5	10	10	0								0
6	10	10	0								0
7	10	10	0								0
8	0					0	-10				-10
9	0					0	-10				-10
10	0					0	-10				-10
11	0					0	-10				-10
12	0					0	-10				-10
13	0					0	-10				-10
14	0					0	-10				-10
15	0					0	-10				-10
16	0					0	-10				-10
17	0					0	-10				-10
18	0			0	-20				-20	-50	-50
19	0			0	-20				-20	-50	-50
20	0			0	-20				-20	-50	-50
21	0			0	-20				-20	-50	-50
22	0			0	-20				-20	-50	-50
23	0	0	-20								-20
24	0	0	-20								-20

Column with price and no volume

Invalidated bids Ex.2

	0	20	20	149,9	150	199,9	200	249,9	250	5040
1	10	10	0							0
2	10	10	0							0
3	10	10	0							
4	10	10	0							
5	10	10	0							
6	10	10	0							
7	10	10	0							0
8	0					0	-10			-10
9	0					0	-10			-10
10	0					0	-10			-10
11	0					0	-10			-10
12	0					0	-10			-10
13	0					0	-10			-10
14	0					0	-10			-10
15	0					0	-10			-10
16	0					0	-10			-10
17	0					0	-10			-10
18	0			0	-20			-20	-50	-50
19	0			0	-20			-20	-50	-50
20	0			0	-20			-20	-50	-50
21	0			0	-20			-20	-50	-50
22	0			0	-20			-20	-50	-50
23	0	0	-20							-20
24	0	0	-20							-20

Price row not logical:

The single bid price row must be continuously increasing from left to right, i.e. price in column n must be greater than price in column n-1.

Bid with two equal prices

Invalidated bids Ex.3

	0	20	20,1	149,9	150	199,9	200	249,9	250	5040
1	10	10	0							0
2	10	10	0							0
3	10	10	0							
4	10	10	0							
5	10	10	0							
6	10	10	0							
7	10	10	0							
8	0									
9	0					0	-10			-10
10	0					0	-10			-10
11	0					0	-10			-10
12	0					0	-10			-10
13	0					0	-10			-10
14	0					0	-10			-10
15	0					0	-10			-10
16	0					0	-10			-10
17	0					0	-10			-10
18	0			0	-20			-20	-50	-50
19	0			0	-20			-20	-50	-50
20	0			0	-20			-20	-50	-50
21	0			0	-20			-20	-50	
22	0			0	-20			-20	-50	
23		0	-20							-20
24		0	-20							-20

*Volume is missing in row **X** at price **P***:

Hourly bid must have volumes introduced on each hourly interval for both price scale limits. The error message provide row (trading interval) and for which there is no volume.

Lack of volumes at price limits

Invalidated bids Ex.4

	0	20	20,1	149,9	150	199,9	200	249,9	250	5040
1	20	10	0							0
2	20	10	0							0
3	20	25	10							0
4	20	25	10							
5	20	10	0							
6	20	10	0							
7	20	10	0							
8	0									
9	0					0	-10			-10
10	0					0	-10			-10
11	0					0	-10			-10
12	0					0	-10			-10
13	0					0	-10			-10
14	0					0	-10			-10
15	0					0	-10			-10
16	0					0	-10			-10
17	0					0	-10			-10
18	0			0	-20			-20	-10	-10
19	0			0	-20			-20	-10	-10
20	0			0	-20			-20	-10	-10
21	0			0	-20			-20	-10	-10
22	0			0	-20			-20	-10	-10
23	0	0	-20							-20
24	0	0	-20							-20

*Bids not logical at period **X***:

The single bid volumes in a period are not logical. The bid volumes must be continuously non-increasing with increasing prices, i.e. bid volume in column n must be equal or less than bid volume in column n-1.

Illogical bid for buy (int.3-4) and sell (int.18-22) offers

Cancel a bid

	1	2
	0	5040
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0

Cancelling a previously submitted bid can be made by replacing it with a new one with only two prices (the minimum and the maximum price scale limits) and 0 volume for all these prices.

A single bid can be canceled by setting Delete Button ✕, which is the same with replacing existing bid with a bid with zero quantities for all hours at both limits of price scale and saving this bid. A new window for cancelling confirmation will be displayed.

Redundancy in information

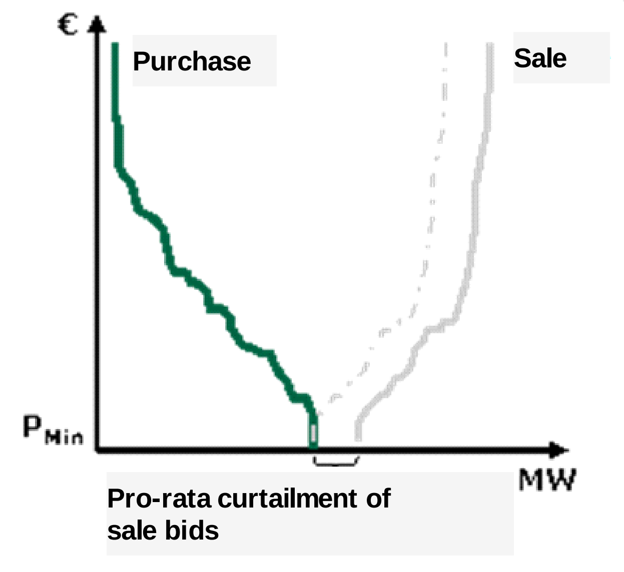
Valid Bid

	0	20	20,1	149,9	150	199,9	200	249,9	250	5040
1	40	40	20			20	0			0
2	40	40	20			20	0			0
3	40	40	20			20	0			0
4	40	40	20			20	0			0
5	40	40	20			20	0			0
6	40	40	20			20	0			0
7	40	40	20			20	0			0
8	40	40	20			20	0			0
9	0					0	-10			-10
10	0					0	-10			-10
11	0					0	-10			-10
12	0					0	-10			-10
13	0					0	-10			-10
14	0					0	-10			-10
15	0					0	-10			-10
16	0					0	-10			-10
17	0					0	-10			-10
18	0			0	-20			-20	-50	-50
19	0			0	-20			-20	-50	-50
20	0			0	-20			-20	-50	-50
21	0			0	-20			-20	-50	-50
22	0			0	-20			-20	-50	-50
23	0			0	-20			-20	-50	-50
24	40	40	20			20	0			0

Valid Bid with redundant information

	0	20	20,1	149,9	150	199,9	200	249,9	250	5040
1	40	40	20	20	20	20	0			0
2	40	40	20	20	20	20	0			0
3	40	40	20	20	20	20	0			0
4	40	40	20	20	20	20	0			0
5	40	40	20	20	20	20	0			0
6	40	40	20	20	20	20	0			0
7	40	40	20	20	20	20	0			0
8	40	40	20	20	20	20	0			0
9	0					0	-10	-10	-10	-10
10	0					0	-10	-10	-10	-10
11	0					0	-10	-10	-10	-10
12	0					0	-10	-10	-10	-10
13	0					0	-10	-10	-10	-10
14	0					0	-10	-10	-10	-10
15	0					0	-10	-10	-10	-10
16	0					0	-10	-10	-10	-10
17	0					0	-10	-10	-10	-10
18	0			0	-20			-20	-50	-50
19	0			0	-20			-20	-50	-50
20	0			0	-20			-20	-50	-50
21	0			0	-20			-20	-50	-50
22	0			0	-20			-20	-50	-50
23	0			0	-20			-20	-50	-50
24	40	40	20			20	0			0

Curtailment Situation



Surplus Situation

- Sell block bids are automatically excluded
- Sell hourly bids are pro-rata reduced until the sell and buy offers curves intersection
- MCP will be 0 Euro

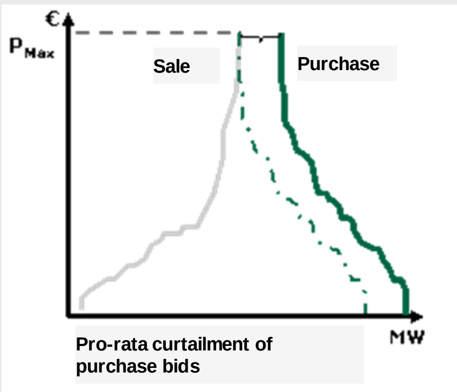
Deficit Situation

- Buy block bids are automatically excluded
- Buy hourly bids are pro-rata reduced until the sell and buy offers curves intersection
- MCP will be the maximum price of the price scale defined with the price calculation algorithm scope

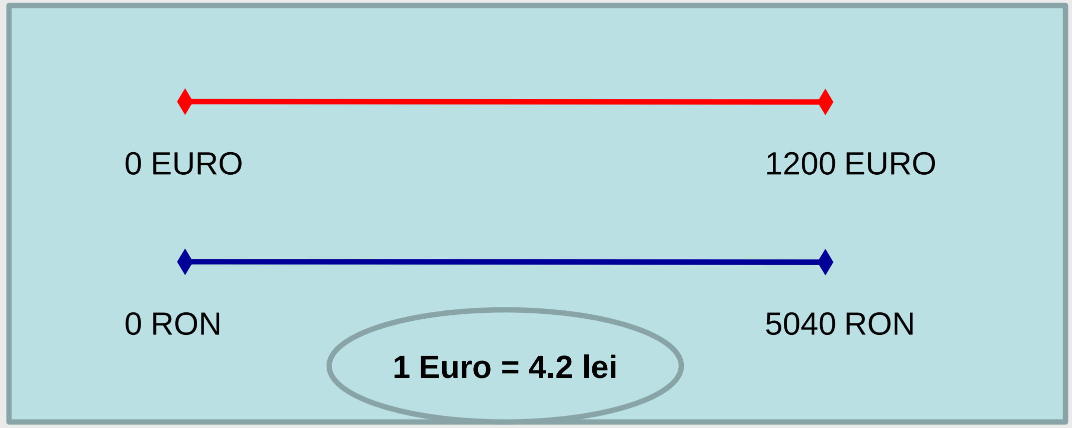
** MCP expressed in bidding currency can result different of the maximum price scale (according to exchange rate), but not higher than price scale maximum limit in the bidding currency*

Maximum Price

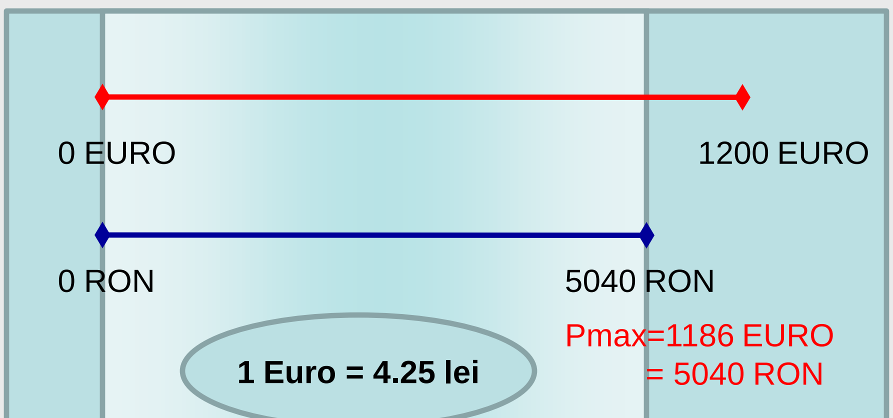
Deficit Situation



Price scales defined in the system (for RON and EURO)



Establishing the price interval for price calculation algorithm



The price interval spanned for MCP to run the price calculation algorithm is established by the highest minimum limits and the lowest maximum limits of the defined price scales.